

Oct 1958

BEACON

VOLUME 58 No. 3

AIR SCOUTS RAISE

FLAG

OVER NEW

AERONAUTICAL CENTER

Dedication Ceremonies
June 1958



CAA Employees' Association

**CAA AERONAUTICAL CENTER
OKLAHOMA CITY, OKLAHOMA**

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OPEN HOUSE HELD AT NEW AERONAUTICAL CENTER

THE CENTER'S new buildings, furnishings and equipments were shown and CAA activities were explained to thousands of people who streamed through the facilities and grounds during the open house held in connection with the official dedication ceremonies. Hosts and hostesses proudly guided groups through the first floor of the headquarters



building, the various laboratories, the new hangar and across the ramp - past planes of the past, present and future - the the grassy area where members of the Model Plane Association gave a buzz-zz-ing demonstration.

TECHNICAL PERSONNEL were on duty in all laboratories to explain the tangible equipment such as operating radar scopes or impressive jet powerplants; or the intangibles such as the control of air traffic, clarified by visual aids such as flight paths drawn in colored chalks for small magnetized planes to follow. Guides were stationed at strategic points in the new warehouse to be sure visitors did not lose themselves in the vastness of the structure.

FROM OPENING time at 10:00 a. m. on Saturday past closing time at 6:00 p. m. Sunday, a spirit of excitement and proud ownership prevailed. Showing the 'public' the many

phases and importance of the Center's activities was a broadening and rewarding experience for many employees who instead of seeing the work from one small section or group could see a thrilling view of the overall operation



Senator Monroney



Administrator Pyle

-O-O-O-

Photographs of dedication ceremonies were furnished the BEACON by Jerry Beeman, Gaston, Indiana, former student at Air Traffic Control Branch. Thanks, a lot, Jerry.

Pictures on this page were made of personages in the speakers' stand at the dedication ceremonies.



Director Lanter



Will Rogers, Jr.

-O-O-O-

This issue of the BEACON was typed by Doris Nichols. Ruth Baxter, ATC, typed student graduate lists. Unwelcome but necessary jobs. Thanks to you two, too.



New Headquarters



New Hangar in Background



Old Headquarters



American Legion's
Kiltie Band

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ANF WILL HAVE ADDITIONAL TRAINING LABORATORY

THE ANNOUNCEMENT was recently made that another Facilities Training Classroom laboratory building will be constructed to provide an additional 50,000 sq. ft. for expanding programs

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in electronics training. The structure will be two stories high and arranged similar to the present ANF Facilities building and will be located at S. W. 62 and MacArthur in place of the old district school building. Geared to meet expansion programs for training 4,000 (continued on p. 13)



Lockheed's Jetstar
Executive type plane



Billy Parker's Early
Vintage Airplane



Whirly Birds of TV

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INSTRUCTORS ATTEND "TESTING" COURSE

A WORKSHOPE COURSE on Testing and Test Writing was conducted by Neil Fox and Robert Beals for Air Navigation Facilities Branch instructors. Mr. Fox and Mr. Beals are deucational specialists from the office of the Assitant to the Director for Training.



Boeing's 707 Jet Transport

-O-O-O-O-

Twelve instructors from Directed St udy attended the two-hour sessions each morn ing and elven instructors from ILS/VOR and Communications Equipment attended the afternoon sessions. A number of topics regarding fair and valid testing were discussed during the course, and the instructors attending felt that their abilitiy in testing was greatly improved.

SYBIL HUSA LEAVES CENTER GOES SOUTH - NO, NORTH

JUST WON'T BE THE SAME at the Aeronautical Center now that Sybil's gone. It wasn't a big group that dined and wined Sybil Husa before she departed OKC for Jacksonville, Florida, but it was a festive occasion, in spite of the fact that farewells are always a little sad.

SYBIL ANDES came to work at Facilities Branch in 1951, and what could you expect with all those students clearing through her office -- one of them snagged her. So in March of 1957 she became Mrs. Joe Husa, Joe being a Maintenance Technician from 5th Region. Joe transferred to 2nd Region, so you see it wasn't the Florida Chamber of Commerce who lured this Oklahoma booster at all.

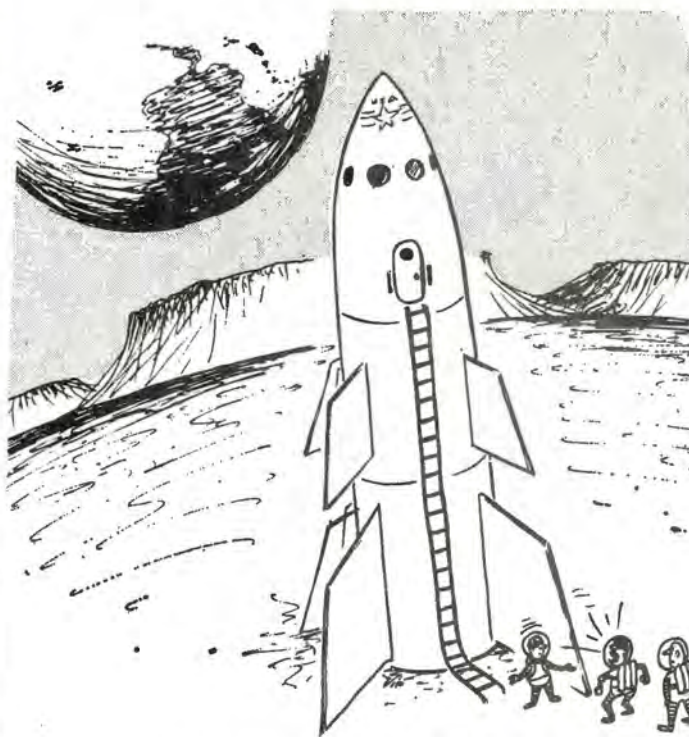


THE AIR NAVIGATION Facilities Branch presented Sybil with gifts in appreciation for the many, many pages she typed for them, and her ever ready laughs which probably chased many a gloomy Monday -- and a group of the "gals" took her to dinner, with additional personal gifts to remember them by. Lots of good luck and best wishes to Sybil and Joe in Jacksonville -- we'll all spend our vacation there this winter!!



(Note: Latest report is that Joe Husa is transferring to Alaska, so any vacationing the Editor may do will be summer - not winter!!)

-o-o-o-o-



"What do you mean you lost the key?"

EMPLOYEE AWARDS



Miss Asia M. Krause, Secretary to the Chief, Federal Airways Standardization Division, receives a cash award for superior performance in connection with Aeronautical Center Security Program. Miss Krause assists the Division Chief in the Administration of this Program as a collateral function of the Division Office.

DURING FIRE Prevention week, October 5-11, all Divisions at the Center conducted physical inspections in their areas for the purpose of eliminating fire hazards.

Reports summarizing the result of these inspections were made, including the number of fire hazards discovered and the corrective action taken.

The importance of fire prevention was called to the attention of all employees.



Acting ATC Chief Clifford Slack presents awards to Grace Upshaw and Maxine Bost.

Grace's award was based on her work with students. Since ATC classes begin each 2 weeks instead of 4, it has been necessary for her to handle an increased workload. Besides routine records, etc. she has made arrangements for students to get their checks cashed easier and has helped make appointments for them at doctor's or dentist's offices.

Work as acting Branch Secretary for six months in addition to assisting in scheduling of trainees, instructors, classrooms and laboratories won the award for Maxine. The scheduling included 20 instructors, 250 trainees in as many as 10 separate training groups, 12 classrooms and 1 set of laboratories.

EMPLOYEE AWARDS



Facilities Flight Inspection Branch Personnel receive Outstanding Performance Ratings: Front Row, Left to Right: Arthur F. Johnson, Naomi D. Brown, and William E. Bell. Back Row, Left to Right: Charles V. Hannan III, Douglas

Doil, John Mensik, and Max E. Kincaid. Others who also received outstanding ratings but who were not present at time picture was made were Richard Cox, Robert S. Lee, and Leo J. Suter.

Mr. Willard H. McMahan, GS-11 Engineer received a sustained superior performance award for his work in assuming new and difficult assignments in the Radar school over a period of rapid expansion of Radar training. Because of his ability and extreme conscientiousness he took on new courses and with a minimum of time for preparation he organized these courses and taught them very effectively. Whenever difficult or emergency situations arose, Mr. McMahan stepped in to keep the program going.



EMPLOYEE AWARDS



Air Navigation Facilities Branch employees receive Outstanding Performance Ratings; First Row, Left to Right: Johnafee Peak, Helep S. Heffner and Arthur W. Schmitt. Back Row, Left to Right: John T. J. Maceda,

Harold T. Swenson, Robert W. Brown, Jr., and Norman Buettner. Jesse H. Tanner also received an Outstanding Rating, but was not present when photograph was taken.

Michael J. Massimino receives Outstanding Performance Award from Clifford D. Slack, Acting Chief, Air Traffic Control Branch. Mr. Massimino designed, as a training aid, a directed study manual covering Parts 1 and 2 of Army, Air Force, Navy and CAA Procedures for the Control of Air Traffic Manual. This is now being used at the Aeronautical Center.

He is also developing a process to allow air traffic control situations to be displayed, three dimensionally, photographed and reproduced as illustrations for ATC manuals.



AERONAUTICAL 'COWBOY' IS INTERESTING PERSON

THERE'S MORE THAN one reason why George Downs wears cowboy boots -- they're very comfortable, and besides, raising horses is his hobby.

AMONG THE UNUSUAL personages at the Aeronautical Center, George ranks near the top. He started with CAA when the Center was located at Houston, Texas. The Standardization Center, as it was then known, combined the Instrument School, which had been located at Detroit Michigan, and Flight Training on single-engine and multi-engine aircraft which had been located in Washington. These functions were combined in 1941, and in February Mr. Downs had a non-CAA assignment to the first class in the Instrument School. It had been the policy of the CAA Instrument School while in Detroit to offer instrument training assignments to various aviation people in the State of Michigan whenever cancellations from inspectors occurred. Mr. Downs tried for several years to get such an assignment since he lived in Ann Arbor, only eighteen miles from the school. When he finally did get the assignment, the school had been moved 1,500 miles away.

WHILE ATTENDING this class in Instrument Flying, Mr. Bennett Griffin - then the Director of the Standardization Center, and Mr. W. D. (Bill) Jones, Chief of the Instrument Section, convinced George that he should join CAA. He had ten days to go back to Michigan to sell his business and house and move his family to Houston. The first two weeks he was there his employment consisted of merely driving the station wagon to town to pick up the mail. He was convinced early that CAA could operate without him!

World War II started before he had completed one full year with the CAA, and normal duty assignments were thrown out the window. The Standardization Center began training ferry pilots and co-pilots for contract carriers for the military, a program which involved a ten-weeks' course in Navigation, engines, aircraft and accessories, link and single-engine instrument training, and multi-engine transition and multi-engine instrument training. All CAA inspector training was suspended until November of 1943, when both types of training were handled. A Coast Guard instrument and multi-engine transition training course for the Coast Guard was implemented in January and CAA inspector classes were reinstated that same year. In June, George became Operations Officer and had the multi-engine training portion of the work. When the Standardization Center was transferred to Oklahoma City, (June 1, 1946) he continued to handle operations for certain classes in multi-engine training.

IN JANUARY of 1947, the "Old Man's Course" was begun. The purpose was to give refresher time in all categories of aircraft, including Link, to supervisory personnel of the Washington and all regional offices. In these classes Mr. Downs worked with DC-4's and DC-3's, with help from other pilots on the Beechcraft, single engine aircraft and Link.

DURING THE two and one-half years he was out of CAA service he held an interesting variety of aeronautical jobs. For one year he was with an airline training service, dealing with executive flying groups, operating out of Ft. Lauderdale, Florida. In 1955 he free-lanced, doing instrument flight training for various companies, charter work for numerous operators, and vacation duty for several oil

companies. In January 1956 he became a part of an irregular carrier service and school in Ft. Worth -American Flyers. While there he served as captain on the Airline, ATR and Instrument instructor on DC-3, Lockheed 12, Aero Commanders, Cessna 180's and Cessna 170's. He thinks this duty took the "rust" off many threads in the old "bolt". He declares that it was a marvelous education.

IN JULY 1956, he returned to CAA in the Executive Pilot Group, based in Washington, D. C. In March 1957 he was given the opportunity of transferring back to the Aeronautical Center in Oklahoma City with Facilities Flight Inspection Branch and he is presently occupying the position of Chief, Flight Evaluation and Final Inspection Section, AC-680.4.

TO SUCH A STORY there has to be a beginning, and George Downs had this beginning when he was a Division Estimate Engineer for Michigan Bell Telephone Company - back in the 20's - and was so impressed with the glamour and money that could be made flying night mail that he learned to fly. In January 1929 he resigned from Michigan Bell Systems and took a formal pilot training course at Robertson Flying Service in St. Louis. He "barn-stormed" the midwest during 1929 and flew co-pilot on Fords and Fokkers for Universal Airlines the winter and spring of 1929-30. From lack of business he was furloughed -- got hungry-- and went to work as a flight instructor for thirty days at Ann Arbor, Michigan. This temporary project lasted twelve years. With a partner, he bought the service -- or actually took over its liabilities -- in the early spring of 1931. In six years he increased his gross paid flying hours from 331 to approximately 3,000. In 1939 he received one of thirteen

experimental CPT Contracts covering the University of Michigan and Michigan State Normal College at nearby Ypsilanti, Michigan. He was considerably impressed to find one month's telephone bill amounting to more than some of his previous year's gross business for a good month. It was this business George sold when meeting the 10-day deadline to get back to Houston and the CAA.

THIS WILL BE Mr. Downs' thirty-second year of flying. He is married and has three children -- two boys and one girl. His oldest son is taking Aeronautical Engineering at Oklahoma University, and thinks he wants to fly. The second boy is interested only in playing ball, and the girl, age 11, is a very fine cowboy. George's hobby is raising horses. He has four riding horses, and he says that he wears cowboy boots for more than one reason -- they are very comfortable, and they serve a very definite need in carrying out his hobby.

(HE WEARS a pretty wicked pair of bowling shoes, also, and carries a right smart average with one of the CAA Leagues.)

HE MET HIS WIFE, LaVerne, in the early 1930's at the Cleveland Air Races. He believes that she has the happy talent of knowing when to talk and when not to talk in an airplane. She also enjoys riding in an airplane, and for many years her annual birthday present was to be a passenger on a stunt ride. This continued until George's safety belt came off while completing a double snap roll, at which time he convinced her that some other present might be better. N. Brown

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WHAT KEEPS MOST people from buying color TV is seeing the price tag in black and white.

NO SUMMER LULL IN AEROMAID ACTIVITIES

Notwithstanding heat, vacations, and such, this has been no slow summer for the Aeromaids Club. One of their biggest assignments since coming into existence was acting as official hostess for the Open House and Dedication Ceremonies at the Aeronautical Center the weekend of June 21-22. Some sixty-five members of the Aeromaids organization, working without pay, in shifts of 2 to 3 hours each, manned the information booths and exhibits open to the public during those two days. While performing a much-needed service, the girls thoroughly enjoyed their part in this program.

TO PROVE that their purpose is not all work - the final meeting of the summer was a Spring Breakfast held on June 12. To the surprise of quite a few people, over 50 girls reported on time for a 6:30 A. M. breakfast -- and consumed an enormous quantity of ham, sausage, bacon, eggs, potatoes and hot biscuits, not to mention gallons of coffee.

QUITE A NUMBER of new girls have joined the Aeromaids Club since the June meeting and the Aeromaids are eager to make their acquaintance, come their first meeting of the Fall season. A reminder to the new Aeromaids -- your first meal with the Aeromaids Club is "on the house."

(Note: Although the Fall Season for Aeromaids normally begins in September, a meeting was held the latter part of August in order to take advantage of a program jointly presented at that time by the Oklahoma City University School of Business and the local chapter of the National Secretaries Association.)

..J. Grayson

AERO CENTER AIDS ATC REGIONAL TRAINING

The Aeronautical Center on September 12 graduated the second class of Air Traffic Control Center and Tower Training Officers. This training, until recently conducted by the Washington Office, is conducted for ATC training personnel for all regions and in the last class included international students. The course has as its aim the improvement of training of ATC personnel through the indoctrination of Control and Tower training officers in instructional principles, methods and techniques, and by the exploration of Center and Tower training activities. Highlights of the training included four presentations of each student and conducted tours of the activities of the Aeronautical Center.

STAFF TO Mr. J. B. Mitchell, Assistant to the Director for Training, who conducted this training, were Mr. N. A. Fox, Mr. R. M. Beals, and Mr. H. R. Richardson. Personnel of the ATC Branch of the Aeronautical Center, Mr. H. N. VanSant, Mr. C. D. Slack, and Mr. F. N. Fairweather, served as technical assistants throughout the course.

THREE MEMBERS of the class were international students from Turkey, who participated fully in all aspects of the training. (See picture on opposite page)

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WHENEVER a woman runs a household on a budget, it is because she is trying to prove to her husband that it can't be done.

A RICH MAN is only a poor man with money.



Seated: H.R. Richardson, Educational Specialist, AC-3, Aeronautical Center; Vedat Kaya Irez, Supervisor Controller, Ankara, Turkey; Refik Ozulutas, ATC Acting Chief, Ankara, Turkey; Gweneth L. Nolan, Air Route Traffic Controller, Detroit Air Traffic Control Tower, Inkstel, Michigan; Harry Feuerstein, Relief Watch Supervisor/Training Officer, Wake Island; Mustafa Uygun, Asst. Chief, Communications, Istanbul, Turkey; Dale J. Jackson, AOS (Supervisory)(RAPCON) Olathe, Kansas.

Standing: R. M. Beals, Educational Specialist, AC-3, Aeronautical Center;

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N. A. Fox, Educational Specialist, AC-3, Aeronautical Center; Alfred L. Martin, Air Route Traffic Controller, Indianapolis, Indiana; J. Roy Bradley, AOS (Tower) Director of Training, Philadelphia, Pennsylvania; Joe R. McMahon, AOS (Tower) Training Supervisor, San Francisco, California; Victor R. Butler, Senior Airways Operations Spec. (RAPCON Tower) Albuquerque, N.M.; Arthur W. Boland, AOS Training, Los Angeles, California; Leroy R. Dibble, AOS (Tower) Director of Training, Columbus, Ohio; Donald C. Detmers, Airways Operations Specialist (Air Route) Oakland, California; and Cecil Griffin, Asst. Chief, Training, SAOS/GEN, Fairbanks, Alaska.

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ANF LABORATORY (continued from p. 4)

students per year on a single shift basis and as high as 6,400 students per year on two-shift schedules, the new building is expected to be completed by July 1, 1959. It will be used primarily for ILS/VOR, Tacan and Radar training and ties in closely with separate "outboard"

facilities where instruction on radiating equipment is conducted.

PRELIMINARY plans call for installation of the ASR-3 radar on the second floor with the antenna on the roof. Tentative drawings show more and larger classrooms, some of which may be quickly converted from classrooms to labs.



Long line - but plenty of food and good enough to wait for - second helpings were the order of the day.



Good humor and good old-fashioned (TVless) visiting prevailed while the picnic'ers waited to be served.



Whose the center of attraction??? John P. Jones, Jack Webb and Paul Shively, as well as the other men & women in the front line are so interested we are curious as to what or who was just outside the camera's view

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THERE ARE still some people around who remember when it cost more to



As tables and stomachs filled up, employees made new acquaintances, renewed old ones - or just sat back and watched.

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drive a car than to park it. Of course you still have to find a place to pay for.



Association-sponsored baseball teams played exhibition game for picnic'ers



Pitching horseshoes is a serious business

ADVANCED APPLIED MATH COURSE IS AVAILABLE

THE APPLIED Calculus course, DS-901, has been released, and enrollments will be accepted from field personnel.

THE TEXT "Calculus for Electronics" by Richmond, and published by McGraw-Hill, is used as a study text but is supplemented by special explanations and a study guide. At many points in the course Instructor John Ott has (cont'd p. 16)

EMPLOYEE AWARDS



First row: Richard A. Wenzel, Fredna P. Sturch, Harriett E. Marshall, Conrad P. Jensen, Jack A. Tisby and Tom W. Hodges. Second row: Robert L. Hoffer, John E. Travis, Philip A. Stevens, Kenneth R. Reed, Thomas E. Williams, Harry C. Keebler and William H. Milton. Back Row: Ralph W. Rea, John W. Galvin, Fred W. Kilgo, William Ulfers, R. W. Pulling, Thomas E. Watkins, Henry T. Shaw and Wesley W. Venable.

Recently, R. W. Pulling, Chief, Facilities Materiel Division, presented cash awards for outstanding performance

(cont'd from p. 16)

inserted direct applications of calculus to CAA equipment operations. Quantities of the text are on hand at the Bookstore sponsored by the Aeronautical Center's Amateur Radio Club.

ratings and cash incentive awards. All of the personnel pictured above were given cash awards for outstanding performance ratings, with the exception of Messrs. Wenzel, Hoffer, Rea, and Tisby, who were presented with Cash Incentive awards for their work in connection with the consolidation of FMD and the Airways Facilities Shops. Mr. Marcellous C. Capps, who was also given a cash award for an outstanding performance rating, was absent when the awards were made and this picture taken.

WHILE TRAINING at the Center does not require knowledge of calculus as a prerequisite, a better understanding of advanced techniques can be gained by a study of higher mathematics. Prerequisite for the course is DS-100.

EMPLOYEE AWARDS



Presentation by Paul H. Shively, Chief, Supply Division, of Outstanding Performance Ratings to Jeannette Horn, AC-170; Billy J. Montgomery, AC-197; and Dean S.

Anderson, AC-170. A cash meritorious service award of \$100 was also given to Mr. Anderson.

Harvey Roach, our "jack of all trades" in the Flight Operations and Airworthiness Division, was the only employee in the Division receiving an Outstanding Award for the year 1957.

Harvey is assigned to the Operations Office, but you are likely to find him almost anywhere on the field, doing almost anything.

We all agree - it couldn't happen to a nicer guy.



EMPLOYEE AWARDS



Robert C. Floch receiving a cash award. Bob was recommended for this incentive award for his initiative in developing and presenting to the Radar staff different methods of using the Vu-Graph projector as a training aid for the Radar School.

From left to right the photo shows:

A. W. Schmitt, Chief, Directed Study Section; Robert C. Floch, Radar Unit; Robert W. Brown, Jr., Chief, Radar Unit; Jack Wichels, Supervisory Instructor, Radar Unit; and W. H. Hill, Chief, Federal Airways Standardization Division.

Harold Bray, Technical Services Branch, is presented an Outstanding Performance Rating by Acting Chief Roger Blizzard.



EMPLOYEE AWARDS



H. J. Barnett, Chief, Contract Supervision and Materials Section, Flight Inspection Branch, receives cash award from Division Chief W. H. Hill while Branch Chief N. R. Hodgkinson watches.

Barney has invented a cabling device which has resulted in major savings in time and costs in the fabrication of cables required for avionics installations. This is typical of the initiative and original thinking displayed by Mr. Barnett on many occasions during his 11 1/2 years with Civil Aeronautics Administration.

QUESTIONS CONCERNING "GOVT. EMPLOYEES TRAINING ACT"

On July 7, 1958 the President signed into law the Government Employees Training Act which is regarded as a landmark on federal personnel management. The following questions and answers, which have been prepared by the Civil Service Commission, cover the points on which questions are most frequently asked.

Q. What is the significance of the Act?

A. The Act provides the first Government side authority for the training of employees within their own agencies, in other Federal establishments, and in non-Federal facilities.

(continued on p. 20)

EMPLOYEES EARN UNIVERSITY DEGREES



Ambitious enough to work daytimes and attend University classes at night are the four Center employees pictured above. Degrees were conferred recently on: (left to right) Robert W. Brown, Jr. (Oklahoma City University), AC-671; James A. Gammon (OCU), AC-261. 1; James Gaddie (Tuskegee Institute), AC-756; and Herbert Bengé (OCU), AC-747.

(continued from p. 19)

- Q. Employee training is certainly not new in the Federal service. Prior to the new act, what were the authorities?
- A. In-service training had been carried on as an implied, if not inherent, management function. A few agencies and Congressional authorization to provide out-service training, and other agencies had sought the same authority by special legislation. Until the act was passed, training legislation had been handled on a piecemeal basis, and where agencies had little or no training authority, the operating activities suffered in many cases. The new act closes many of the gaps by providing general statutory authority for all types of employee training.

AL INSISTS HE'S NEVER
HAD USE FOR A SACK -



SO HIS PALS at Data Processing got him a bucket!! When Al L. Lovelace, who has been known to say repeatedly, "I never get sick when I fly," left for a field familiarization trip to Minneapolis, Minn., his co-workers remembered that these have been famous last words for many a seasoned flier. The bucket was thoughtfully presented as a going-away gift, but, unfortunately, CharLee James reports, knee pads to hold it with while working a panel could not be found. To date, we have not learned whether or not Lovelace has coughed up his words...

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WHEN YOU HELP a man in trouble,
you can be sure of one thing - he
wont forget you -
the next time he is
in trouble.

LIVING ON A budget is the same as
living beyond your means except that
you have a record of it.

THE MODERN youngster thinks the
pony is a little inexpensive foreign
horse.

ATC BRANCH HAPPENINGS

CONGRATULATIONS and best wishes are to be extended to HOWARD HAMMES, JUSTIN J. "JAY" CERVI, and PAUL F. COULTHARD, formerly of the Air Traffic Control Branch, in their new assignments.

HOWARD HAMMES was promoted, effective August 24, to work in the Training Office of the Office of International Cooperation, Washington, D. C. Howard came to the Aeronautical Center from the Chicago ARTC, September 23, 1956.

"JAY" CERVI accepted a promotion, effective September 7, to TDC at Indianapolis, Indiana. "Jay" transferred from the Westchester County Tower at White Plains, N. Y. to the Aeronautical Center September 23, 1956.

PAUL COULTHARD received a promotion effective September 6, to AMB at Atlantic City, N. J. Paul returned to the Aeronautical Center March 9, 1958, after spending nine months at the Jacksonville, Florida ARTC. He had previously been an Instructor at the Aeronautical Center for a year and a half.

These fellows gave a very good account of themselves while on the Instructor Staff here and we know they will be a credit to the "Center" in any future endeavor. Good luck.....

P. Carley

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BLESSED IS THE man, who having
nothing to say, abstains from giving
in words evidence of the fact.

PERHAPS THE BEST proof that appearances are deceiving is the fact that the \$ looks the same as it did 10 years ago.

SELECT SWAMIS CRYSTAL - GAZE IN FMD LABORATORY

The Facilities Materiel Division is justly proud of the very select group of swamis it has collected. To be somewhat more factual let us say they are crystal-gazers of the highest order. They lie somewhere in the mystic realm between gem cutters and electronic specialists. These eagle-eyed, clear-sighted fellows meet for daily gazing sessions in the hushed atmosphere of the FMD Crystal Laboratory. This is one of the little-known but all-important activities of Facilities Materiel Division that aid in keeping the CAA's far-flung facilities operating normally.

THE MISSION of these gentlemen is to repair defective radio frequency-determining crystals or to grind new ones. These crystals are used in the thousands of transmitters and receivers of the CAA.

A "CRYSTAL" consists of small wafer-thin plate of quartz, usually no larger than a postage stamp, which is placed in a suitable holder with electrodes. These small bits of quartz are used to keep radio transmitters, receivers and other equipment automatically tuned to a very precise frequency without much additional complexity in the equipment. The operation of such crystals is with almost complete immunity to adjustments, line voltage, weather and the like.

FREQUENTLY the Laboratory is requested to fabricate special crystals on very short notice for emergency situations. The Laboratory normally performs services which are not available from private industry.

THE RAW MATERIAL for such crystals is imported from Brazil where it is found along creek beds and rock outcroppings. Slabs are cut from the "mother" quartz with diamond-edged

rotary saws. Only rare minerals such as topaz, corundum or diamond are harder than quartz. The violet-colored variety of quartz is better known as amethyst.

QUARTZ HAS AN UNUSUAL property known as piezoelectric effect. This means that a plate of quartz will vibrate vigorously at its exact natural frequency when an alternating current of the approximate frequency is applied to its surfaces. The thickness of the plate and the manner in which it is cut determine its natural rate of vibration.

THE WIZARD behind the crystal these many years has been Fred Uridil. He designed the precision lapidary equipment and developed the many procedures for grinding the delicate quartz plates and measuring the results on elaborate electronic frequency meters. Fred is now Chief Project Engineer for Communications Equipment in Facilities Materiel Division and has passed on his many trade secrets to the presiding gazer, Bill Rogers. Bill is assisted by Alfred Ray and Larry Wynns.

WHILE HAY FEVER sufferers are seasonably concerned with pollen count, Bill is apt to be concerned about the dust count in his lab. An inspection of his laboratory will make it crystal-clear that it is a clean-cut operation.

..G. Younghein

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New car - streamlined chassis on wheels with tiers of lights in front, stripes of chrome on sides, and an installment behind.

Actually, the best thing to do when it is raining, is to let it rain.

HOOPS, MY DEAR! HULA HOOP CONTEST WAS
FEATURE OF ASSOCIATION'S SEPTEMBER DANCE



ONE OF THE biggest - and from many reports, one of the best - dances was held at Moose Lodge by the CAA Employees Association.

A good orchestra, a large enough floor and contests of hula-hoop spinning skill combined to make an evening of fun and enjoyment.

Note to Decoration Committee:

The hundreds of balloons you inflated and tied and hung all over the ceiling lasted about the first dance and a half. Judging from the camera views, Barbara DePue, AC-672, has the lone survivor of the colorful array.

Note to employees who weren't there:
PLAN TO BE AT THE NEXT DANCE.

AIR TRAFFIC CONTROL BRANCH GRADUATES

TE - 3

Alexander S. Allen II
Merrell D. Allen
Jimmy W. Brewster
Francis A. Bontine
Leonard C. Ciolek
Ralph F. Colross
James M. Cowan
Ronald M. Daly
Carmen P. DeFranco
Allan Decker
John W. Dolney
James R. Eggleston
Jack S. Elliget
William R. Fowler
James M. J. Harris
Howard J. Hebert
John B. Hicks, Jr.
Bobby A. Jones
Joseph M. Keyes
Robert S. King
George C. Kretschman
Wayne S. Martin

New Orleans, Louisiana
Lawrence, Kansas
El Paso, Texas
Chicago, Illinois
Chicago, Illinois
Washington, Maryland
Washington, D. C.
Peabody, Massachusetts
El Paso, Texas
Hawthorne, New York
Jacksonville, Florida
Houston, Texas
Detroit, Michigan
Jacksonville, Florida
El Paso, Texas
New Orleans, Louisiana
Memphis, Tennessee
Memphis, Tennessee
Chicago, Illinois
Troy, New York
Norfolk, Virginia
Prairie Village, Kansas

TE - 4

Lloyd E. Martins
Louis P. Merlin
James L. Moore
Earl H. Morrow
Frank Nesbit, Jr.
Omar LeRoy Nunn
Matthew J. O'Neil
James A. Perkins
Oris W. Rivers
Martin Sadovsky
Hubert C. Shirley
Robert R. Smith
Edward L. Sneed
Kenneth C. Spirling
Charles E. Stephenson
Joseph C. Stewart
Reuben R. Taylor
George Thomas
John A. Tilley
Charles O. Voss
William R. Whitaker
Leonard J. Zielinski

Detroit, Michigan
Miami, Florida
Memphis, Tennessee
San Antonio, Texas
Arlington, Virginia
Independence, Missouri
Brooklyn, New York
Norfolk, Virginia
Indianapolis, Indiana
Oceanside, New York
Memphis, Tennessee
Washington, D. C.
Memphis, Tennessee
Hanna City, Illinois
Indianapolis, Indiana
Indianapolis, Indiana
Atlanta, Georgia
Indianapolis, Indiana
Miami, Florida
Memphis, Tennessee
Hendersonville, North Carolina
Oulport, Mississippi

TE - 5

Thad C. Baker
Joseph E. Benson
William R. Brady
George C. Brooks
Ernest A. Bush, Jr.
Robert C. Castel
John A. Cochran
Ronald L. Colatti
Curtis W. Crosswell
Richard F. Fagan
Henry Feinstein
Owen J. Flanagan, Jr.
Billy B. Foster
Howard L. Goode
Donald J. Hamilton
John E. Harris
John R. Hedges
Alfred M. Hendrix
Melvyn L. Kachler
Kendall K. Kay
Edward R. Kenna

North Olmsted, Ohio
Miami, Florida
San Antonio, Texas
Alexandria, Virginia
Miami, Florida
Portage, Pennsylvania
Metairie, Louisiana
Mt. Kisco, New York
New York City, N. Y.
Akron, Ohio
Cleveland, Ohio
Indianapolis, Indiana
Memphis, Tennessee
Memphis, Tennessee
Fort Worth, Texas
San Antonio, Texas
Solon, Ohio
Miami, Florida
Cleveland, Ohio
Hurst, Texas
Worth, Illinois

TE - 6

Henry F. Kratoval, Jr.
A. J. Kulikowski
James E. Lemax
Ira L. Ludwig
Alvin L. Lynn, Jr.
Bennie G. Maddox, Jr.
Floyd E. Martin
Gary F. Meyer
Melvin I. Miller
W. Jacob Minars
Sander Moskowitz
Cleo E. Noel
William J. Orne
Richard W. Phelps
Ronald A. Phillips
Donald R. Reynolds
Sheldon Rosen
Thomas E. Schulte, Jr.
Herbert R. Tyree
John Veen, Jr.
Bill J. Wiley

Cleveland, Ohio
Miami, Florida
Norfolk, Virginia
Ephrata, Pennsylvania
Washington, D. C.
Jacksonville, Florida
Falls Church, Virginia
Baltimore, Maryland
Goshen, Indiana
Washington, D. C.
Washington, D. C.
Washington, D. C.
Elyria, Ohio
Brighton, Tennessee
Greenfield, Indiana
Cleveland, Ohio
Cleveland, Ohio
Chicago, Illinois
Indianapolis, Indiana
Indianapolis, Indiana

TE - 1

William D. Adams
William L. Allison
Ronald J. Askin
Armond L. Baggs
John W. Blakely, Jr.
Georg M. Bowers
William D. Bowser
Donald M. Chapman
Melvin R. Davidow
Joseph O. Deller
Ralph G. Dietzel
James L. Doyle
Michael J. Fabia
Gerald Gangian
Robert L. Geor
William R. Harrison

Miami, Florida
Memphis, Tennessee
Brooklyn, New York
Pensacola, Florida
Spartanburg, South Carolina
Parma, Ohio
Johnstown, Pennsylvania
Memphis, Tennessee
Miami, Florida
Baldwin, New York
Miami, Florida
Memphis, Tennessee
Cambria Heights, New York
Detroit, Michigan
New Orleans, Louisiana
Ann Arbor, Michigan

TE - 8

Clarence E. Holliday
Gomer W. Jones
James P. Kelly
William E. Kennedy
David F. Kimberley
Charles R. Milton
William M. Polson
Robert Renegar
Frank E. Schretter
David A. Senne
Robert W. Shriver
Gerald W. Smith
Ira F. Smith
Olyas R. Thornton
Patrick A. Tillery
Kenneth R. Vander

Silver Spring, Maryland
Cleveland, Ohio
Easton, Pennsylvania
Detroit, Michigan
Nashville, Tennessee
Memphis, Tennessee
Cleveland, Ohio
Winchester, Indiana
Washington, D. C.
Lafayette, Indiana
Washington, D. C.
Trenton, Michigan
Westport, Connecticut
El Paso, Texas
Miami, Florida
St. Louis, Missouri

TE - 9

Charles Alexander, Jr.
Jerry Beeman
James A. Bollinger
Ronald H. Chapell
Thomas W. Clapperton
Veldon W. Colley
James L. Davis
Aquila O. Ferguson, Jr.
James C. French
Thomas F. Gately
John H. Jay
George P. Gilch, Jr.
Robert Giordano
Ralph D. Hart

Cleveland, Ohio
Gaston, Indiana
Memphis, Tennessee
Memphis, Tennessee
Detroit, Michigan
Virginia Beach, Virginia
Smelterville, Idaho
Plainview, Texas
Lebanon, Indiana
Somerville, Massachusetts
Berry, Alabama
W. Medford, Massachusetts
Brooklyn, New York
Minerva, Ohio

Page 4

TE - 10

George W. Hiatt
Warren D. Kneis
George W. McKay
Lester L. Myers
Robert C. Mitchell
Martin A. Pats
Richard A. Pickens
William S. Riddie
William D. Riley
William S. Schofield
Volney L. Smith
James M. Stoops
Richard R. Tennis
Carl Weisenberg

Mount Airy, North Carolina
Chicago, Illinois
Roanoke, Virginia
Shreveport, Louisiana
Fort Worth, Texas
Evanston, Illinois
W. Miami Beach, Florida
Crest Springs, Illinois
San Antonio, Texas
Harrisonville, Missouri
Kansas City, Missouri
Madison, Indiana
Norfolk, Virginia
Davenport, Iowa

TE - 11

Richard B. Adams
Ray Bailey
Marc S. Bell
Clifton S. Bennett
Leonard U. Brown
Darrell J. Browning
Charles H. Bruce
John R. Burns
Lawrence L. Byers
David W. Campbell
Lowell M. Caskay
Robert L. Cerutti
Anthony Cinnagrana
Edward L. Clements
Robert C. Coyle
Frank L. Crilley
Jesse F. Davis
George L. Diaffenbach
George H. Farrell
John F. Ferrie
John T. Foh

Detroit, Michigan
Norman Park, Georgia
Miami Springs, Florida
Memphis, Tennessee
Ester, Nebraska
Virginia Beach, Virginia
Chicago, Illinois
Hudson, New York
Detroit, Michigan
St. Ann, Missouri
Stokeston, Missouri
Oak Park, Illinois
West Warwick, Rhode Island
Miami, Florida
Fort Worth, Texas
Halden, Massachusetts
Seymour, Indiana
Washington, D. C.
Jamaica, New York
West Roxbury, Massachusetts
Miami, Florida

TE - 12

Lyman Frain
Ronald B. Barrett
Frank M. Gilman
John J. Hagerty, Jr.
Joseph W. Hanks
Helton R. Hill
James L. Ingram
Edward H. Kelly
Floyd G. Linker
Robert L. Luby
Albert M. Lundsen
Thomas McCarthy
Horace L. Matthews
Ralph Mitchell

Jamaica, New York
Coral Gables, Florida
Miami, Florida
Philadelphia, Pennsylvania
Hyde Park, Massachusetts
Robert, Louisiana
Memphis, Tennessee
Allentown, Pennsylvania
Peoria, Illinois
Memphis, Tennessee
Peoria, Illinois
Dorchester, Massachusetts
Hialeah, Florida
Brentwood, Maryland

TS - 12 (Continued)

Peter Mykytiuk
Max Oklob
Russell M. Plummer, Jr.
James W. Quinn
Billy M. Sawyer
Elbert R. Stamps
Joseph L. Webster, Jr.

Cumberland, Wisconsin
Chicago, Illinois
Indianapolis, Indiana
Crown Point, Indiana
Fort Worth, Texas
Florissant, Missouri
Detroit, Michigan

TS - 13

Richard W. Adams
James T. Albert, Jr.
John E. Alexander
John J. Allen
Austin A. Allman
Stephan D. Arata
Donald D. Ault
Louis Barbieri, Jr.
Earl Bates
Robert Bazant
Roy E. Boone
R. H. Branstetter
Willard A. Bronger
Delmer L. Brown
Harold E. Burden
James R. Burman
Delton L. Cain
Robert E. Campbell
Archibald T. Carlson
George H. Carver
Anthony F. Centra
Raiford W. Coley
James W. Cox
Fred A. Crowley
Joseph A. Dantoni

Coraopolis, Pennsylvania
Dallas, Texas
San Antonio, Texas
Albuquerque, New Mexico
Memphis, Tennessee
Washington, D. C.
Casey, Illinois
Detroit, Michigan
Atlanta, Georgia
Austin, Texas
Atlanta, Georgia
Denver, Colorado
Chicago, Illinois
Denver, Colorado
Englewood, Colorado
Ottawa, Ohio
New Orleans, Louisiana
Jacksonville, Florida
East Grand Forks, Minnesota
Romulus, Michigan
Washington, D. C.
Forest Park, Georgia
Alexandria, Virginia
Memphis, Tennessee
New Orleans, Louisiana

TS - 14

Arnold C. Dickinson
Dwight D. Dooley
Joseph J. Downing
Arthur L. Duncan
Emery L. Endley
Ralph G. English
Alan J. Farrell
John E. Fortin
Charles F. Gerould
George R. Gilbert
Kenneth E. Golcher
Kenneth S. Gregg
Albert E. Houck, Jr.
Marvin R. Griffin

Washington, D. C.
Fort Worth, Texas
Fort Worth, Texas
St. Louis, Missouri
Cowan, Illinois
Indianapolis, Indiana
Indianapolis, Indiana
Washington, D. C.
Inglewood, California
Fort Worth, Texas
Maplewood, New Jersey
Miami, Florida
Miami, Florida
Atlanta, Georgia

Page 6

TS - 14 (Continued)

Joseph A. Gullen, Jr.
Russell L. Hackley
Joseph G. Halle
John W. Harrison
Robert L. Haskett
Herbert C. Hicks
James E. Hood
William A. Hoose
George M. Housley
William L. Howard, Jr.
George E. Hubbard

Atlanta, Georgia
Washington, D. C.
Chisholm, Maine
Kansas City, Missouri
Denver, Colorado
Detroit, Michigan
Minneapolis, Minnesota
San Antonio, Texas
Fort Worth, Texas
Detroit, Michigan
Fort Worth, Texas

TS - 15

Marvin E. Hunsycutt
William E. Jarrigan
Vernon B. Jobst
Harry K. Johnson
Bobby G. Johnston
James Johnston
William A. Johnston, Jr.
Robert Jones
Louis J. Joy
Stephen Kason
Robert D. Kelly
Robert S. Kelley
Leonard J. Kennedy
Robert L. Kirch
Leslie L. Kirk
Edward C. Knight
Robert Koon
Arthur R. Lappin
Roger B. LeFant
Raymond E. Leverich
Charles H. Lewis, Jr.
Robert Lyle
Basil L. McCallister
Harry A. McClellan
Bruce A. McCombs

Fort Worth, Texas
San Antonio, Texas
Hondo, Texas
San Antonio, Texas
Heavener, Oklahoma
Staten Island, New York
Pittsburgh, Pennsylvania
Alexandria, Virginia
Pittsburgh, Pennsylvania
Brooklyn, New York
Lindsay, California
San Antonio, Texas
Garden Grove, California
Seaford, New York
Oxford, Pennsylvania
Hialeah, Florida
San Antonio, Texas
Willoughby, Ohio
Littleton, Colorado
Memphis, Tennessee
Grand Prairie, Texas
Indianapolis, Indiana
Hialeah, Florida
Norfolk, Virginia
Denver, Colorado

TS - 16

Wayne G. McCoy
Damon F. McDaniel
Howard C. McKinley
John R. Mock
Lloyd K. Moore
Edward F. Mureyn
Ralph A. Nebbia
C. J. Newbold
Frank R. North
Richard W. Northman
Henry G. Norton
Thomas J. O'Connor
Wm. H. Parrish
James B. Patterson
William H. Pattison
Roger Picklesimer
Robert H. Purdy
Walter C. Putnam, Jr.
Frederick C. Richards
William G. Ross
Harold R. Ruffin
Fred D. Sappington
John B. Saxman, Jr.
Donnie G. Sewell

Albuquerque, New Mexico
Fort Worth, Texas
Coraopolis, Pennsylvania
Fort Worth, Texas
Atlanta, Georgia
Washington, D. C.
Evansville, Indiana
Ashtabula, Ohio
Iduberry, Missouri
Memphis, Tennessee
Coraopolis, Pennsylvania
Richmond Hill, Long Island
San Antonio, Texas
Washington, D. C.
Albuquerque, New Mexico
Indianapolis, Indiana
Coraopolis, Pennsylvania
Jacksonville, Florida
Miami, Florida
Atlanta, Georgia
San Antonio, Texas
St. Louis, Missouri
Washington, D. C.
San Antonio, Texas

TS - 16 S

John W. Sewell
Stanley W. Shaws
Thomas R. Shaver
Clifford Sheffield
Joseph M. Shiflett
Jimmie O. Smith
Stephen H. Snow
Richard J. Spoorer
Joseph L. Stephens
Edward J. Stiles
James W. Summers
Allen W. Swan, Jr.
James E. Toney
Karl D. Trautmann
William C. Tucker
Robert E. Ulanich
Robert G. Underwood
Wesley L. Upchurch
Daniel C. Vale
Dan E. Wells
Edward J. Williams
Elwood W. Wilson
Joseph J. Woods
John W. Zimmerman

San Antonio, Texas
Atlanta, Georgia
Rye, New York
Alexandria, Virginia
College Park, Georgia
Miami, Florida
Worcester, Massachusetts
Bakersfield, California
College Park, Georgia
Gardena, California
Alexandria, Virginia
Canonsburg, Pennsylvania
McComb, Mississippi
Atlanta, Georgia
Bunkie, Louisiana
Wilmering, Pennsylvania
Albuquerque, New Mexico
Hialeah, Florida
Mt. Freedom, New Jersey
San Antonio, Texas
Philadelphia, Pennsylvania
Blytheville, Arkansas
Chicago, Illinois
Atlanta, Georgia

TS - 17

Louise G. Albright
Robert G. Backus
David J. Bates
Thomas J. Baxter, Jr.
Richard D. Beaver
Wayne L. Blankenship
Millard F. Bohler, Jr.
William E. Bowles
Gale C. Bradford
Beverly F. Garrison
Stephen B. Carter
Lyman R. Chisholm
Billy J. Christensen
William L. Connors
Gary S. Cook
James J. Corbett
William V. Coughlin
Joseph L. Cunningham
Stanley R. Davis
Reginald L. Divers
Frederick M. Donovan
Albert Dunn

Greensboro, North Carolina
Norfolk, Virginia
Glendale, California
Jacksonville, Florida
Chicago, Illinois
Hammond, Indiana
Chalmette, Louisiana
Kansas City, Missouri
Jacksonville, Florida
Pergus Falls, Minnesota
Lawrence, Kansas
Jacksonville, Florida
Tacoma, Washington
Cleveland, Ohio
Parsons, Kansas
Santa Monica, California
Adrian, Michigan
Beverly, Massachusetts
St. Cloud, Minnesota
Roanoke, Virginia
St. Joseph, Missouri
Baxter, Tennessee

TS - 18

Carl G. Evans
Jesse F. Fitzgerald
Richard R. Fleming
Earl S. Golden
Major V. Harris
Leroy N. Hattery
Robert E. Haug
Marvin E. Hill, Jr.
Charles F. Hollaman
Wilburn L. Holloway
Donald M. Hoespian
Roger A. Jennings, Jr.
Leo F. Jette
Melvin R. Kahn
Robert J. Kimbro
Robert F. Klein
Bruce A. Keykar
Paul Loden
John B. Lofgren
Bernard Lowenbraun
Wayne L. Leary
William R. Lutsie
Gerald M. McGrath

Memphis, Tennessee
Coeur d'Alene, Idaho
Falls Church, Virginia
Chicago, Illinois
New Athens, Illinois
Bethalto, Illinois
Kansas City, Missouri
Memphis, Tennessee
College Park, Georgia
Fort Worth, Texas
Sanger, California
Greensboro, North Carolina
Fort Worth, Texas
Miami, Florida
Bryan, Texas
Steger, Illinois
Hammond, Indiana
Castro Valley, California
Smolan, Kansas
Bronx, N.Y.C., New York
Shrewsbury, New Jersey
Jersey City, New Jersey
Wayne, Michigan

James R. McLaughlin
Dorion L. McNabb
Paul H. Macchia
Carola Farmer
Fredric P. Martin
Dedric Matthews
Donald J. Hayward
Arthur J. Miller, Jr.
Robert Hunsak
Myler K. Moore
William B. Moore
Ronald Morrison
William R. Moseley
Frank J. Moser
David G. Murphy
Roy O. Naylor
Frederick C. Nelson
Lawrence P. Nielsen
Byron Olds
Joseph J. Paparazzo
Joseph L. Pierce
Paul H. Privette
Eugene E. Rafferty

Jacksonville, Florida
Seattle, Washington
Barre, Vermont
Miami, Florida
Mountain Home, North Carolina
Fordsville, Kentucky
Somerville, Massachusetts
Columbus, Georgia
Pittsburg, Pennsylvania
Vallejo, California
Washington, Indiana
Newark, New Jersey
Winston-Salem, North Carolina
Minneapolis, Minnesota
San Francisco, California
Hapeville, Georgia
Minneapolis, Minnesota
Chicago, Illinois
Tempe City, California
Jersey City, New Jersey
Fort Mill, South Carolina
Indianapolis, Indiana
St. Paul, Minnesota

INDOCTRINATION COURSE - AIR CARRIER MAINTENANCE
7/28 -- 8/29

Gordon H. Anderson	Juneau, Alaska
Thomas H. Bixion	Miami, Florida
Donald W. Dwyer	Washington, D. C.
Sam P. Owen	Miami, Florida

INDOCTRINATION COURSE - GENERAL MAINTENANCE
7/28 -- 8/29

Justus W. Henderson	Seattle, Washington
Robert Stone	Washington, D. C.
Russell Turvy	Oklahoma City, Oklahoma

INDOCTRINATION COURSE - MANUFACTURING INSPECTION
8/28 -- 8/8

Walter Friedman	Long Beach, California
Chester L. Sulzshart	New York, N. Y.
William H. Tacker	Fort Worth, Texas

INDOCTRINATION COURSE - POWERPLANT ENGINEERS
7/28 -- 8/3

Jack Acampora	Los Angeles, California
Wilford A. Bryde	Los Angeles, California
John Kiselica	Washington, D. C.
William J. McHair	Washington, D. C.

INDOCTRINATION COURSE - AIRFRAMES AND EQUIPMENT
8/28 -- 8/8

Charles S. Asmar, Jr.	Washington, D. C.
William E. Garlock	New York, N. Y.
Donald Geoffrion	Washington, D. C.
Matthew A. Opka	Washington, D. C.
James L. Pallas	Fort Worth, Texas
Jacob B. Russell	Fort Worth, Texas
Eugene L. Turner	Fort Worth, Texas
Robert Walsh	Washington, D. C.

EE-2 - AIRCRAFT ELEC. SYSTEM
7/28 -- 8/8

Leonard M. Cotone	Washington, D. C.
D. R. Cravens	Atlanta, Georgia
Edward H. Davis	Los Angeles, California
George Edmondsons	Seattle, Washington
Albert H. Hopkins	Minneapolis, Minnesota
Chas. H. Knobler	Rio de Janeiro, Brazil
J. W. Kramien	Newark, New Jersey
James E. McCarthy	Miami, Florida
John B. Meehan	San Francisco, California
Robert W. Ray	Dallas, Texas
Ralph W. Richardson	Winston-Salem, N. Carolina
R. J. Scott	Kansas City, Missouri

FE-1 -- 8/8 - 8/25

William P. Sireley	Washington, D. C.
Wm. J. Lawrence	Fort Worth, Texas
Maxwell L. Maslyn	Washington, D. C.
Jack A. Sain	Los Angeles, California

EE-3 -- 8/11 - 8/22

W. E. Bell	San Antonio, Texas
J. P. Hoagy	Chicago, Illinois
Edmund Jakob	Los Angeles, California
Warren L. Jeffrey	Tulsa, Oklahoma
Hugh B. Johnson	Fort Worth, Texas
Andrew Kay	Miami, Florida
James J. Morris	New York, N. Y.
Stavre L. Ovrevik	Atlanta, Georgia
Thomas A. Petersen	Indianapolis, Indiana

FP-3 -- 8/18 - 8/29

T. Eokis	New York, N. Y.
Frederic V. Bieghorn	Pittsburgh, Pennsylvania
Harvey W. Hedlund	Chicago, Illinois
Wm. H. Huebner, Jr.	Dallas, Texas
Iver P. Jacobsen	Howard, New Jersey
R. H. Johnson	Denver, Colorado
E. W. Mason	Los Angeles, California
William A. Olson	Minneapolis, Minnesota
Harold B. Strawn	San Francisco, California
Harry W. Taber	Miami, Florida
Brian J. Vincent	Washington, D. C.
Jay H. Woolery	Wichita, Kansas

Olin L. Bairdon
Richard L. Robinson
William L. Robinson
Melvin Rosenbaum
Irving Ross
Eldon L. Schmidt
Walter J. Schuldt, Jr.
Floyd D. Scruggs
Arthur F. Sherrell
Jack P. Sides
Freddie L. Smith
William W. Smith
Claude L. Spencer
Martin P. Taugher
Gerald L. Turner
Vernon L. Vauhal
Daniel A. Wallace
Ernest L. Webster
L. H. Wilens
Raymond E. Wise
Ragone H. Wright
Charles L. Wytkoop
Dominick J. Yerace
Richard P. Zolnowski

Plainfield, Indiana
Allen Park, Michigan
Denver, Colorado
Jackson Heights, New York
Farmingdale, New York
Seattle, Washington
Stone Ridge, New York
Jacksonville, Florida
Minneapolis, Minnesota
Indianapolis, Indiana
Chicago, Illinois
San Lorenzo, California
Hickory, North Carolina
Lakewood, Ohio
Ypsilanti, Michigan
Kansas City, Kansas
Jacksonville, Florida
Jacksonville, Florida
San Antonio, Texas
Indianapolis, Indiana
Kansas City, Missouri
New York, New York
Scenery Hill, Pennsylvania
Kansas City, Missouri

AVIONICS TRAINING SECTION GRADUATES

NAV-AIDS CLASS #1 -- 4/14 - 5/20

George J. Clark	Oklahoma City, Oklahoma
Ray B. Hollingsworth	Panama Park, California
James H. Hoy	Oklahoma City, Oklahoma
Alvin E. Koonovsky	Midwest City, Oklahoma
Albert A. Poje	Kansas City, Missouri
David Roth	Hicksville, New York
Paul G. Taylor	Oklahoma City, Oklahoma

ACES CLASS #3 -- 4/28 - 6/6

Marvin Bailey	Oklahoma City, Oklahoma
Charles Barnard	Norman, Oklahoma
Lyons Corvatt	Washington, D. C.
William D. Criba	Del City, Oklahoma
Francis J. Hill	Midwest City, Oklahoma
Ray Jantz	Oklahoma City, Oklahoma
Horace Keane, Jr.	Oklahoma City, Oklahoma
Roy L. Kaffer	Oklahoma City, Oklahoma
Don M. Morris	Oklahoma City, Oklahoma
W. C. Patterson	Bethany, Oklahoma
Ezra L. Render	Oklahoma City, Oklahoma
Colonel V. Sober	Oklahoma City, Oklahoma
Charles A. Sobetsky	Oklahoma City, Oklahoma
Warren Thompson	Oklahoma City, Oklahoma
G. T. Zachary	Oklahoma City, Oklahoma

ACES CLASS #4 -- 6/16 - 7/25

Robert Bell	Oklahoma City, Oklahoma
Robert Cole	Oklahoma City, Oklahoma
Jacob A. Davis	Oklahoma City, Oklahoma
John J. DiFiore	New York, N. Y.
Bobby E. Dunsmore	Oklahoma City, Oklahoma
George R. Perry	Oklahoma City, Oklahoma
Anthony Richulisa	Santa Monica, California
Doyle Staples	Fort Worth, Texas

GENERAL OPERATIONS AND FLIGHT TEST BRANCH GRADUATES

COURSE GO-11-18 - SEPT. 8, 1958

H. C. Hartley	Cedar Rapids, Iowa
J. A. McCasland	Washington, D. C.
G. E. South	Phoenix, Arizona
F. Wignall	Jackson, Mississippi

COURSE GO-14-3 - SEPT. 8, 1958

R. B. Anbury	Fremont, California
C. J. Christensen	Medford, Oregon
L. J. Cooling	South Bend, Indiana
D. W. Kneass	Indianapolis, Indiana
*Fernando Gonzales	Guayaquil, Ecuador

COURSE GO-14 SPECIAL - Sept. 2, 1958

L. G. Covert	Kansas City, Missouri
R. D. Freeland	New York, N. Y.
F. M. Jamison, Jr.	Washington, D. C.
W. W. Jarrell	Los Angeles, California
W. S. Moore	Fort Worth, Texas
G. D. Stathers	Washington, D. C.

COURSE GO-7-20 - AUGUST 18, 1958

J. Gebelin, Jr.	Portland, Oregon
H. C. Harris	Sacramento, California
P. Pring	Raleigh, North Carolina
J. L. Sythoff	Cleveland, Ohio

COURSE GO-7-19 - AUGUST 4, 1958

E. J. Fielder	Portland, Maine
H. M. Hamilton	Alexandria, Virginia
R. H. Lewis	Oakland, California
B. B. Staley	Memphis, Tennessee
*A. A. Bosseylla	Cairo, Egypt
Warry Guest	Oshkosh, Wisconsin

INDOCTRINATION CLASS 58-1 - JULY 28, 1958

General Operations:

W. J. Cantwell	Birmingham, Alabama
D. Giffen	Midland, Texas
J. L. Kemy, Jr.	Oklahoma City, Oklahoma
D. L. Latham	Milwaukee, Wisconsin

*Observer

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COURSE FT-11-4 - JUNE 2, 1958

J. J. Franck	Los Angeles, California
J. D. Ludwig	Fort Worth, Texas

Temporary Instructor -

J. Hurley	Kansas City, Missouri
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INDOCTRINATION 58-3 - MAY 26, 1958

Flight Test

R. E. Tenhoff	Inglewood, California
D. A. Tuck	Fort Worth, Texas
J. P. Bodnar	Los Angeles, California
P. L. Clark	Kansas City, Missouri
W. J. Neff	Washington, D. C.
W. Oleksak	Washington, D. C.

General Operations

R. K. Blain	South Bend, Indiana
K. H. Garofalo	Alexandria, Virginia
O. E. Karvonen	Houston, Texas
E. F. Nyjack	Norwood, Massachusetts

COURSE GO-12-5 - APRIL 28, 1958

E. D. Jacobson	San Diego, California
T. E. Mobley, Jr.	St. Petersburg, Florida
W. F. Placek	Teterboro, New Jersey
B. Staley	Memphis, Tennessee
*W. R. Dotter	Chicago, Illinois
*B. Dyer	Cleveland, Ohio

COURSE GO-12-4 - APRIL 7, 1958

R. J. Hixson	Dearborn, Michigan
W. E. Nichols	White Plains, N. Y.

COURSE GO-12-4 - MARCH 31, 1958

B. M. Hoefner	Norwood, Massachusetts
J. R. Horn	Chicago, Illinois
H. Raulerson	Houston, Texas
M. Ruggenberg	Portland, Oregon

*Observer

COURSE GO-13-3 - MARCH 17, 1958

K. J. Davis	Oakland, California
O. Enderton	Rochester, New York
J. P. Riviere	Miami, Florida
S. E. Thomas	Oklahoma City, Oklahoma
*R. Cuseta	San Jose, Costa Rica

COURSE GO-7-18 - MARCH 17, 1958

I. Budoff	Allentown, Pennsylvania
H. L. Grandy	Cheyenne, Wyoming
E. S. Gubler	Anchorage, Alaska
P. J. Vollmer	Pittsburg, Pennsylvania
L. Ireland	Oklahoma City, Oklahoma
M. Lamb	East Hampton, N. Y.

COURSE GO-7-17 - MARCH 3, 1958

N. V. Hendy	Helena, Montana
G. W. Pearson	Springfield, Illinois
S. E. Thomas, Jr.	Oklahoma City, Oklahoma
A. E. Young, Jr.	Anchorage, Alaska
J. Lacey	Tulsa, Oklahoma
*R. Cuseta	Costa Rica

*Observer

FLIGHT INSPECTION TRAINING GRADUATES

(CAA CLASS 1-58-F) 4/21 - 6/27

James B. Alexander	Region 2
Guy L. Brown	Region 4
William E. Croft, Jr.	Region 2
Gordon A. Daum	Region 1
Charles L. Hall	AC
Harry J. Huskey	Region 5
William B. Madsen	W
Harold J. Ricker	Region 1
Raymond W. Skinner	Region 4
Fred J. Slightam	AC
Harold L. Smith	Region 3

(USAF CLASS 14045) 4/14 - 6/20

Capt. Alfred F. Endler	Castle AFB
Bufoed E. Farnsworth	AC
Harold E. Harvill	AC
Capt. Ernest F. Jolliffe	Bergstrom AFB
S/Sgt. Harold D. Jones	Tinker AFB
Capt. George C. Mong	Robbins AFB
Capt. Robert J. Olshaskie	Lake AFB
1st Lt. Thomas F. Kuebohn	1357th AACB
1st/Lt. Robert D. Mow	Hq. Spanish AACB
1/Sgt. Howard C. Toney	Randolph AFB

(CAA CLASS #R-58-F) 6/16 - 6/27

James M. Cole	Region 2
J. G. Davis	Region 2
Glyde D. Bradwell	Region 1
Marvill W. Johnson	Region 2
Frederick R. Marks	Region 2
Kenneth E. Van Arsdale	Region 3

AIR CARRIER OPERATIONS BRANCH GRADUATES

CLASS ACO-24, ASSIGNED MAY 19, 1958

M. J. Ahearn	Pittsburgh, Pennsylvania
L. T. Jones	Miami, Florida
R. A. Shepanek	Washington, D. C.
B. W. Smeor	Washington, D. C.

CLASS ACO-J2-4, ASSIGNED MAY 26, 1958

J. A. Ferrarese	San Francisco, California
T. K. Hutchins	Fort Worth, Texas

CLASS ACO-I-58-3, ASSIGNED MAY 26, 1958

D. H. Felton	Washington, D. C.
H. A. Gardner	Chicago, Illinois
P. A. Hunsel	St. Louis, Missouri
H. E. Mitchell	Kansas City, Kansas
C. E. Moody, Jr.	LaGuardia, N. Y.
R. E. Shindler	Spillanti, Michigan
R. W. Taber	Miami, Florida
J. Telchiera	LaGuardia, N. Y.

CLASS ACO-5-16, ASSIGNED JUNE 30, 1958

Stanko Perkovic	Tugoevia
O. K. Lankford	Oklahoma City, Oklahoma

CLASS ACO-T-58-4, ASSIGNED JULY 28, 1958

P. G. Harrell	Denver, Colorado
R. G. Rutsell	Miami, Florida
E. O. Jensen	Chicago, Illinois
O. C. Raymond	Washington, D. C.
D. Rush	Minneapolis, Minnesota
R. E. Smith	Washington, D. C.
C. J. Staley	Atlanta, Georgia
E. Zarzycki	New York, New York

CLASS ACO-11-35, ASSIGNED AUGUST 18, 1958

O. C. Berge	Minneapolis, Minnesota
D. G. Post	Oklahoma City, Oklahoma
H. S. Zimmerman	Washington, D. C.
A. R. Bossaglia (Observer)	Cairo, Egypt

TACAN CLASS I CONVENED APRIL 7, TO JUNE 27, 1958

NAME	REG.	STATION	NAME	REG.	STATION
Adkins, Harry S., Jr.	3	St. Louis, Mo.	Liles, Charlie H.	2	Jackson, Miss.
Balding, Russell E.	2	Ft. Worth, Texas	Martin, Dean C.	4	Salt Lake City, Utah
Barlotti, Earl L.	1	Nantucket, Mass.	Mock, James A.	4	Denver, Colorado
Beil, Wesley M.	4	Lewistown, Montana	Morris, Edward S.	4	Los Angeles, Calif.
Bertolotti, Henry E.	4	Oakland, Calif.	Newton, J. Herbert	2	Ft. Worth, Texas
Biberslino, Charles	4	Sacramento, Calif.	Oya, Ernest M.	6	Oahu, Hawaii
Brooks, Erwin T.	4	Klamath Falls, Ore.	Painter, Joseph	5	Anchorage, Alaska
Cave, George W.	2	Houston, Texas	Patrick, Howard R.	4	Spokane, Wash.
Chang, Dai Chin	6	Honolulu, Hawaii	Peck, Valentine	1	Louisville, Ky.
Colao, Raymond	1	Jamaica, N. Y.	Reynolds, Homer H.	1	Dayton, Ohio
Danahue, Wilmer B.	3	Sioux Falls, S. Dak.	Rogers, Gerald E.	1	Cleveland, Ohio
Faller, Robert C.	5	Anchorage, Alaska	Rogers, William H.	3	Lone Rock, Wis.
Gordon, Fred A.	4	Tucuman, N. Mex.	Rotramel, William T.	4	Blythe, Calif.
Hoeing, Herman C.	3	Omaha, Nebraska	Schindler, Milton J.	2	Tulsa, Okla.
King, Jack H.	4	Albuquerque, N. Mex.	Wuthrich, Karl S.	4	Pocatello, Idaho
Lehnberg, Roger R.	3	Vichy, Missouri			

RADAR CLASS 124 CONVENED MARCH 31, TO JUNE 20, 1958

Agardy, Julius L.	1	Cleveland, Ohio	McClain, William T.	2	Tampa, Florida
Avett, Lester L.	4	Malmstrom AFB, Mont.	McDevitt, W. H.	1	Washington, D. C.
Black, William D.	4	Denver, Colorado	Moody, Arch B.	2	Oklahoma City, Okla.
Brown, Billy H.	2	Memphis, Tenn.	Morris, Stephen L.	1	Norfolk, Va.
Bryant, James G.	2	Shreveport, La.	Netzer, John E.	4	Denver, Colorado
Buckler, Robert C.	4	Tucson, Arizona	Norman, Paul E.	2	Miami, Florida
Burger, Tommy W.	2	Ft. Worth, Texas	Parsons, W. B., Jr.	2	Oklahoma City, Okla.
Burns, Robert B.	2	Jacksonville, Fla.	Purnell, Thomas E.	3	Minneapolis, Minn.
Christie, Dumas E.	2	Savannah, Georgia	Ratliff, Paul C.	4	Colorado Spgs., Colo.
DeMott, Robert	1	Washington, D. C.	Riggs, Carole A.	3	St. Louis, Mo.
Dorsey, Ernest C.	2	Ft. Worth, Texas	Sennett, William F.	1	Philadelphia, Pa.
Eaves, James M.	2	Mobile, Alabama	Smith, William T.	1	Dayton, Ohio
Farell, S. J., Jr.	1	Boston, Mass.	Sowers, Robert M.	3	Kansas City, Mo.
Glove, Lester M.	2	Kansas City, Mo.	Walker, Kenneth C.	1	Burlington, Vt.
Goff, Wayne H.	2	Shreveport, La.	Wasske, Roy A.	4	Belleve, Wash.
Haltaufderhyde, G. L.	1	LaGuardia Ap., N. Y.	Waters, Robert E. AC	4	Oklahoma City, Okla.
Hilcher, Leroy	4	Denver, Colorado	Weaver, Monty L.	4	Riverside, Calif.
King, Merle V.	Spec	Washington, D. C.	Welborn, Nathaniel J.	3	Chicago, Illinois
Lake, Donald E.	3	Detroit, Michigan	Wilmering, J. F., Jr.	3	St. Louis, Mo.
Loughman, J. F., Jr.	1	Pittsburgh, Pa.	Zajic, John R.	3	Kansas City, Mo.

RADAR OPTION SPECIALTY CLASS 122 CONVENED MARCH 3, TO MARCH 28, 1958

Alexander, James L.	2	Knoxville, Tenn.	Raila, Charles, Jr.	3	Indianapolis, Ind.
Allison, James E.	4	March AFB, Calif.	Rowland, George	1	Richmond, Va.
Belvin, Homer L.	4	Great Falls, Mont.	Rutland, Leonard	2	Tallahassee, Fla.
Barrett, Harold F.	1	N. Y. Int'l Ap., N. Y.	Saurage, James L., Jr.	2	Ft. Worth, Texas
Cornell, Joseph D.	3	Offutt AFB, Nebr.	Turner, Glenn R.	3	Kansas City, Mo.
Furukie, Susumu	6	Honolulu, T. H.	Warden, Frank	1	Falmouth, Mass.
Hicks, Durell A.	2	Atlanta, Ga.	Wied, Jesse R.	2	College Station, Texas
Hopson, Dan L.	2	San Antonio, Texas	Wiggins, Willard M.	2	Savannah, Ga.
Lipacomb, Wayland B.	5	Anchorage, Alaska	Wilson, Carlos C.	1	Louisville, Ky.
Muekotos, Argiros	1	Jamaica, N. Y.	York, Darrell L.	2	Barksdale AFB, La.
Popejoy, Robert H.	3	Kansas City, Mo.			

COMMUNICATIONS EQUIPMENT CLASS 100 CONVENED MARCH 24, TO JUNE 27, 1958

NAME	REG.	STATION	NAME	REG.	STATION
Anderson, F. O.	3	Mason City, Iowa	Lombard, R. G.	4	Los Angeles, Calif.
Arikul, Mana	OIC	Thailand	Martinez, Ramon T.	2	San Antonio, Texas
Bendall, Ray A.	2	Memphis, Tenn.	Miller, Charles E.	6	Honolulu, T. H.
Brown, William G.	2	Dothan, Alabama	Moore, John R.	5	Anchorage, Alaska
Carille, John L.	2	Midland, Texas	Mosefaki, Frank	1	Washington, D. C.
Carewell, Allan A.	4	Spokane, Wash.	Muller, George F.	1	Chesapeake, Ohio
Cayce, Charles Wm.	3	Kansas City, Mo.	Newton, Raymond A.	2	Hobart, Okla.
Chambers, Donald W.	4	Wendover, Utah	Nicolai, Edwin G., Jr.	4	Yakima, Wash.
Erikson, Leon R.	4	Denver, Colo.	Norom, Alden O.	3	Des Moines, Iowa
Gibson, Clarence L.	2	Palacios, Texas	Peach, John H.	4	Sacramento, Calif.
Gould, William Louis	4	Cedar City, Utah	Pearson, Russell E.	2	Merriden, Miss.
Harris, Joseph Alan	1	Lynchburg, Va.	Richard, Joseph Q.	1	Utica, New York
Hayden, Chester M.	1	Dravosburg, Pa.	Schwartz, A. W.	3	Hutchinson, Kansas
Hoss, James H.	4	Cheyenne, Wyo.	Scifres, Elbert D.	4	Roswell, New Mex.
Inceoglu, Kadir	OIC	Ankara, Turkey	Tagawa, Shizuo	4	Winslow, Arizona
Kawagoe, Roy Y.	6	Honolulu, T. H.	Vogel, Elmer E., Jr.	3	Indianapolis, Indiana
Leabo, Don Cecil	3	Philipp, So. Dak.	Wallace, Eldon	3	Springfield, Mo.
Livingston, David T.	2	Lufkin, Texas	Young, Robert W.	4	San Francisco, Calif.

COMMUNICATIONS EQUIPMENT CLASS 101 CONVENED APRIL 7, TO JULY 11, 1958

Abbott, Sidney L.	4	Los Angeles, Calif.	Linna, Carlo L.	3	Duluth, Minn.
Carpenter, Charles A.	1	Charleston, W. Va.	McCurran, Patrick	2	New Orleans, La.
Christensen, Jerry	5	Galena, Alaska	Mathews, Harry M.	2	Salt Flat, Texas
Colton, Leonard E.	4	Salt Lake City, Utah	Muse, Kermit M.	2	McComb, Miss.
Cranston, George R.	1	Erlanger, Kentucky	Perry, William A.	4	Idaho Falls, Idaho
Dunning, Donald A.	1	Philadelphia, Pa.	Sanford, Raymond	3	Romulus, Michigan
Duxbury, Galvest W.	2	Shreveport, La.	Trickey, Woodrow	2	Alexandria, La.
Hammor, Julius	1	Idelwild Ap., N. Y.	Walmesley, Joseph	3	Huron, So. Dakota
Hoover, Arver D.	5	Anchorage, Alaska			

ILS/VOR CLASS 135 CONVENED APRIL 7, TO JUNE 27, 1958

Balfour, Arthur J.	4	Los Angeles, Calif.	Lang, Robert H.	3	Columbia, Mo.
Barratt, George	1	Erie, Pa.	Lett, Royce G.	3	Grand Island, Nebr.
Bischof, Lawrence S.	4	Portland, Ore.	McKnight, Matthew	1	Cleveland, Ohio
Bischof, Carl C., Jr.	1	New York, N. Y.	McWilliams, T. N.	4	Albuquerque, N. Mex.
Borchardt, B. B.	3	Madison, Wisconsin	Mack, Gerald P.	1	Rochester, N. Y.
Brizendine, Eugene	2	Nashville, Tenn.	Millburn, Wayne E.	4	Rawlins, Wyo.
Ciprian, Paul	1	Cleveland, Ohio	Moore, David	1	Portland, Maine
Cobb, Max E.	4	Laramie, Wyo.	Monkowitz, Arthur	1	Rockaway, N. Y.
Crown, Charles E.	3	Waterloo, N. D.	Murta, Edward J., AC	4	Oklahoma City, Okla.
Durham, James J.	1	Washington, D. C.	Randall, Daniel C.	1	Portland, Maine
Fisher, Loren H.	5	Fairbanks, Alaska	Slocum, Robert L.	4	Los Angeles, Calif.
Fisher, Thomas H.	4	Salt Lake City, Utah	Smith, Joseph D.	2	Evergreen, Alabama
Goo, Harry W. C.	6	Honolulu, Hawaii	Smith, Stephen E.	4	Los Angeles, Calif.
Gottfeld, Leonard	1	Idelwild Ap., N. Y.	Torricio, Victor C.	1	Buffalo, N. Y.
Heathcot, Joe H.	3	Minneapolis, Minn.	Wheelock, Richard	Spec	Washington, D. C.
Honnerich, Alva E.	3	Wichita, Kansas	Williams, Billie N.	2	Amazillo, Texas
Jordan, Max A.	2	Raleigh-Durham, N. C.			

COMMUNICATIONS EQUIPMENT CLASS 102 CONVENED APRIL 21, TO JULY 25, 1958

NAME	REG.	STATION	NAME	REG.	STATION
Anderson, Werner	4	Phoenix, Ariz.	Kakar, Abdul M.	OIC	Afghanistan
Araujo, Wilson O.	OIC	Brazil	Lautenschlager, L. R.	3	Sioux City, Iowa
Bagley, Paul	4	Los Angeles, Calif.	Looney, Harry	1	Elkins, W. Va.
Bogdanowich, W. P.	1	White Plains, N. Y.	MacQueen, John G.	2	Tampa, Florida
Brown, Oliver P.	WO	Washington, D. C.	Marsden, Elwood R.	4	Ellensburg, Wash.
Christopher, E. E.	4	Arecata, Calif.	Matsu, George Y.	6	Canton Island, S. P.
Connolly, Peter	1	Jamaica, N. Y.	O'Neil, Harry B.	3	Indianapolis, Ind.
Dalton, Robert J.	4	Reno, Nevada	Orborne, Randall W.	2	Fayetteville, Ark.
Funk, Sherman D.	3	Indianapolis, Ind.	Parsons, James E.	1	Cleveland, Ohio
Galbraith, John A.	2	Key West, Florida	Perrin, Elino B.	OIC	Brazil
Hall, Norman E.	1	New Castle, Del.	Prout, Earl D.	4	College Station, Tex.
Hamilton, Wm. A.	4	Los Angeles, Calif.	Shaw, A. V., Jr.	2	Tallahassee, Fla.
Hankinson, Albert E.	1	Bradford, Pa.	Spencer, William H.	2	Ft. Worth, Texas
Hewitt, Larry D.	3	Garden City, Kans.	Sspakowski, Ed. F.	1	Niagra Falls, N. Y.
Iverson, Harry S.	3	Jamestown, N. Dak.	Thompson, L. G., Jr.	2	Wilmington, N. C.
James, Claud C.	4	Los Angeles, Calif.	Tubki, Abdul S.	OIC	Afghanistan
Johnson, Elton	4	Los Angeles, Calif.	Tyler, Elwin E.	2	El Paso, Texas
Jones, Gordon L.	3	Sidney, Nebraska	Williams, Frederick	1	Pittsburgh, Pa.

COMMUNICATIONS EQUIPMENT CLASS 103 CONVENED MAY 5, TO AUGUST 8, 1958

Ainsworth, Wm. E.	4	Winnemucca, Nev.	Longshore, Morris	4	Sacramento, Calif.
Alonso, David S.	2	Melbourne, Fla.	MacDonald, D. W.	4	Klamath Falls, Ore.
Boots, Raymond J.	6	Waks Island	Maresca, Getano	1	LaGuardia Ap., N. Y.
Bradford, Harold W.	3	Minneapolis, Minn.	Morgan, Bobby L.	3	Romulus, Mich.
Cruver, Stanley G.	4	Los Angeles, Calif.	Pike, Edwin E.	1	Columbus, Ohio
Henderson, Charles	2	New Bern, N. C.	Prater, Wm. M.	2	Tulsa, Okla.
Hendricks, Wm. C.	2	Daytona Beach, Fla.	Serter, John M.	3	Omaha, Nebr.
Jacobs, Murray J.	1	Jamaica, New York	Valdez, Anselmo Q.	2	Laredo, Texas
Kelly, William J.	1	Jamaica, New York	Wasmack, Otto A.	2	El Paso, Texas

SHORT TACAN CLASS I CONVENED MAY 5, TO MAY 30, 1958

Adams, Eunah H.	2	Midland, Texas	Hursh, Frank D.	1	Boston, Mass.
Argundson, Norman	3	Green Bay, Wisc.	Kurth, Clifford C.	1	Charleston, W. Va.
Anderson, Roy C.	4	The Dalles, Ore.	McMaster, John E.	3	Hutchinson, Kansas
Baloch, Ralph N.	3	Des Moines, Iowa	Patrick, Donald J.	3	Chanute, Kansas
Carpenter, Lowell E.	4	Boise, Idaho	Rasmussen, Oscar	4	Eugene, Ore.
Combs, Edward L.	4	Las Vegas, Nev.	Smith, Paul	2	Ft. Smith, Ark.
Foster, Arthur C.	3	Fargo, N. D.	Smith, Robert S.	1	Norfolk, Va.
Hadrin, George D.	WO	Washington, D. C.	Tarver, Lonnie F.	4	Los Angeles, Calif.

ELECTRO-MECHANICS CLASS I CONVENED APRIL 28, TO JUNE 20, 1958

Davenport, William	2	Charlotte, N. C.	Robinson, Roy B.	2	Ft. Smith, Ark.
Forbes, Robert A.	2	LaFayette, La.	Rose, Fred C.	1	Buffalo, N. Y.
Forsyth, John N.	4	Los Angeles, Calif.	Smith, Artie M.	3	LaCrosse, Wisc.
Kennedy, Herbert M.	1	Portland, Me.	Sutton, Harold A.	4	Salt Lake City, Utah
Myers, Lewis H.	1	New Cumberland, Pa.	Taylor, John H.	3	Grand Island, Nebr.
Quick, Gerald C., Sr.	4	Denver, Colo.	Watanabe, Fred K.	6	Hilo, Hawaii

ILS/VOR CLASS 137 CONVENED JUNE 2, 1958, TO AUGUST 22, 1958

NAME	REG.	STATION	NAME	REG.	STATION
Allen, James H.	2	Tallahassee, Fla.	Lau, Norman Y. T.	6	Wake Island
Bellinger, Frank A., Jr.	1	Oriskany, N. Y.	McKay, Carl R.	4	Salt Lake City, Utah
Brown, Douglas R.	4	Albuquerque, N.M.	Morehouse, Wm. M.	3	Lansing, Michigan
Bruemmer, John W.	2	San Antonio, Tex.	Morgan, Leroy N.	2	Dallas, Texas
Bunce, Derrick M.	2	Chattanooga, Tenn.	Perry, Earl S.	2	Alexandria, La.
Caldwell, Cecil L.	3	Joplin, Mo.	Polak, Richard A.	1	Newark, N.J.
Chrobak, Rudolph C.	1	Philipsburg, Pa.	Rhodes, Robert C.	4	Reno, Nevada
Davis, Henry L.	1	Cleveland, Ohio	Richey, William L.	4	Truth or Consequ., N.M.
Dunning, Donald A.	1	Philadelphia, Pa.	Rowell, Roy E.	2	Birmingham, Ala.
Engelhardt, Robert	Minn.	St. Paul, Minn.	Slensby, Jack L.	1	Toledo, Ohio
Feller, Lee R.	3	Ypsilanti, Mich.	Stansbury, Richard	3	Wichita, Kansas
Gauldin, John W.	3	Waterloo, Iowa	Stone, Benjamin F.	1	Lexington, Ky.
Ghanem, Sallm	OIC	Lebanon	Sturcke, Henry E., Jr.	1	Far Rockaway, N.Y.
Hajje, Joseph A.	OIC	Lebanon	Tollefsrud, Edwin N.	3	Pierre, S. D.
Hollis, Thomas L.	5	Anchorage, Alaska	Turner, Marshall B.	3	Cedar Rapids, Iowa
Ireland, John F.	1	New Bedford, Mass.	Walp, Vincent D.	1	Allentown, Pa.
Jennings, Homer S.	4	Toledo, Wash.	Williams, Stanley S.	4	Crescent City, Calif.

RADAR CLASS 125 CONVENED JUNE 9, 1958, TO AUGUST 29, 1958

Baker, Robert C.	4	Long Beach, Calif.	Magalis, Orville E.	4	San Francisco, Calif.
Brown, Marshall A., Jr.	1	Norfolk, Va.	Markley, John A.	4	Colorado Spgs., Colo.
Cagle, Harold	2	Nashville, Tenn.	Martindell, Jay P.	3	Indianapolis, Ind.
Chapman, Esten E.	1	Boston, Mass.	Mauston, Garland G.	1	Fairborn, Ohio
D'Agati, James F.	1	Cleveland, Ohio	Moon, Arthur M.	2	Montgomery, Ala.
D'Angelo, Andrew R.	1	Idelwild, N.Y.	Nelson, Robert L.	4	Salt Lake City, Utah
Duran, Blas-Antonio	OIC	Madrid, Spain	Powell, James V.	6	Honolulu, T.H.
Frydendahl, Bent	4	Albuquerque, N.M.	Frewitt, William D.	2	Oklahoma City, Okla.
Guedeney, Victor	OIC	Santiago, Chile	Rayner, John A.	4	Tucson, Arizona
Hamel, Albert M.	4	Denver, Colo.	Reyes, Alfred J.	2	New Orleans, La.
Harrison, V. E., Jr.	2	Austin, Texas	Rorke, John D.	4	San Diego, Calif.
Hellwig, Raymond B.	3	St. Louis, Mo.	Salhaney, Fas W.	4	Great Falls, Mont.
Hopkins, John W.	2	Shreveport, La.	Spada, Charles P.	3	Romulus, Michigan
Jones, Cleo	2	San Antonio, Tex.	Sullivan, Billy E.	3	Indianapolis, Ind.
Kane, Garth M.	5	Anchorage, Alaska	Taylor, William B.	AC	Oklahoma City, Okla.
Kolodzey, George J.	1	Philadelphia, Pa.	Tingle, John E., Jr.	2	Austin, Texas
Leatherbury, Lewis C.	2	New Orleans, La.	Vertner, Loren D.	4	Spokane, Wash.
Lee, Douglas W.	4	San Diego, Calif.	Weber, William C.	2	New Orleans, La.
McCaffrey, Francis X.	AC	Oklahoma City, Okla.	Yubero, Jose	OIC	Madrid, Spain
McIntosh, Eddie	2	Jacksonville, Fla.	Zaemes, Theodore	1	Washington, D.C.
McWhiter, Billie R.	4	Los Angeles, Calif.			

RADAR CLASS 126 CONVENED JULY 21, TO OCTOBER 10, 1958

Abernethy, James G.	WO	Washington, D.C.	Holland, William G.	2	El Paso, Texas
Anglin, Hugh A.	2	Atlanta, Ga.	Hull, Walter H.	4	Great Falls, Mont.
Applefield, Stanley	1	Baltimore, Md.	Johnson, David L.	4	Seattle, Wash.
Byer, James J.	3	Minneapolis, Minn.	Johnson, Howard B.	4	Tacoma, Wash.
Bennett, Emery P.	2	Benson, N. Car.	McNeela, Hubert W.	1	Cleveland, Ohio
Bligh, Charles W.	3	St. Louis, Mo.	Makey, Charles L.	3	Omaha, Nebr.
Bowen, Ethelbert H.	1	Washington, D.C.	Nafus, Charles W.	4	Burbank, Calif.
Bunton, Calvin O. J.	4	Denver, Colo.	Rancour, Clifford E.	4	Ogden, Utah
Burgess, Carl E.	5	Anchorage, Alaska	Raney, Clarence E.	2	Oklahoma City, Okla.
Cikla, Edward R.	1	Cleveland, Ohio	Reeves, James C.	2	Waco, Texas
Copeland, Robert B.	2	Pensacola, Fla.	Rolanda, Hugo	3	Romulus, Mich.
Cordero, Alfred J.	1	Washington, D.C.	Scally, Paul J.	1	Cleveland, Ohio
Dilts, LeRoy J.	4	March AFB, Calif.	Shantola, James	-	Canada
Downs, Norman E.	2	Houston, Texas	Shepherd, Robert D.	4	Tucson, Arizona
Edwards, Desmond	5	Anchorage, Alaska	Stevens, Larkin E.	3	Romulus, Mich.
Falvey, John W.	3	Wichita, Kansas	Stroebel, David L.	5	Spenard, Alaska
Frazier, Herman W.	4	Albuquerque, N.M.	Sutton, William N.	2	Savannah, Ga.
Gilham, Royce E.	2	Ft. Worth, Texas	Taranoff, Larry P.	4	Tacoma, Wash.
Guth, Charles L.	1	Washington, D.C.	Wesley, Franklin D.	2	Shreveport, La.
Hadley, Roy, Jr.	2	Mobile, Ala.	Wetterer, Ernest W.	1	Charleston, W. Va.
Haywood, Benjamin	1	Pittsburgh, Pa.	Work, Ervin W.	4	March AFB, Calif.

PRE-RADAR CLASS 126 CONVENED JUNE 23, TO JULY 18, 1958

Anglin, Hugh A.	2	Atlanta, Ga.	Guth, Charles L.	1	Washington, D.C.
Applefield, Stanley	1	Baltimore, Md.	Holland, William G.	2	El Paso, Texas
Barnett, Robert N.	3	Vichy, Mo.	Makey, Charles L.	3	Omaha, Nebr.
Bligh, Charles W.	3	St. Louis, Mo.	Raney, Clarence E.	2	Oklahoma City, Okla.
Bunton, Calvin O. J.	4	Denver, Colo.	Reeves, James C.	2	Waco, Texas
Copeland, Robert B.	2	Pensacola, Fla.	Rolanda, Hugo	3	Romulus, Mich.
Dilts, LeRoy J.	4	March AFB, Calif.	Scally, Paul J.	1	Cleveland, Ohio
Frazier, Herman M.	4	Albuquerque, N.M.	Sutton, William N.	2	March AFB, Calif.
Gilham, Royce E.	2	Ft. Worth, Texas			

TOPE CHANNELING CLASS 1 CONVENED JULY 14, TO JULY 25, 1958

Atkins, Gus T.	2	Miami, Fla.	Moravick, Anton	1	Idelwild Ap., N.Y.
Bethel, Richard A.	1	New York, N.Y.	Nelson, Jerome L.	3	Minneapolis, Minn.
Boehnlein, Albert W.	3	Garden City, Mich.	Neubauer, Conrad A.	2	San Angelo, Texas
Donaldson, Calphrey	2	Daytona Beach, Fla.	Norman, Robert E.	2	Jacksonville, Fla.
Fink, Stanley W.	2	New Cumberland, Pa.	Patos, Plato	1	Medford, Mass.
Hendricks, Clement E.	3	Chicago, Ill.	Qualls, Vernon A.	2	Midland, Texas
Hines, James M.	3	Kansas City, Mo.	Richardson, J. E., Jr.	1	Falls Church, Va.
Hocker, Arthur R.	3	Kansas City, Mo.	Smith, Archie B.	2	Nashville, Tenn.
Mayhall, Joseph G.	1	Cleveland, Ohio			

COMMUNICATIONS EQUIPMENT CLASS 109 CONVENED JULY 28, 1958, TO OCT. 31, 1958

NAME	REG.	STATION	NAME	REG.	STATION
Anjaneyulu, K.R.K.S.	OIC	India	Matthey, Clarence	2	Little Rock, Ark.
Brooks, Terry J.	1	Lafayette, La.	Merchio, Enrique	OIC	Chile
Davis, George N.	2	Concord, N.H.	Olsen, Charles R.	4	Klamath Falls, Ore.
Flaming, Herman A.	3	Goodland, Kans.	Peraky, Wm. E., Jr.	2	Key West, Fla.
Florist, Ernesto G.	OIC	Chile	Ryan, Jesse Lee	4	Los Angeles, Calif.
Hupp, Channon D.	1	Parkersburg, W. Va.	Sanderson, Gilbert R.	4	Grand Junction, Colo.
Maki, Horbert M.	4	Casper, Wyo.	Shafer, Benjamin S.	3	Goshen, Ind.
Martin, Robert J.	4	Los Angeles, Calif.	Velasquez, Marco	OIC	Chile

COMMUNICATIONS EQUIPMENT CLASS 110 CONVENED AUGUST 11, TO NOV. 14, 1958

Baker, Hughie W.	4	Medford, Ore.	Mets, Eugene	1	New York, N. Y.
Carey, Joseph F.	4	Grand Junction, Colo.	Nordstrom, Willard	3	Watertown, S.D.
Carpenter, Claude E.	3	Columbia, Mo.	Ochoa, Charles B.	4	Oakland, Calif.
Cochran, Virgil E.	2	Houston, Texas	Paquette, Leo J.	3	North Platte, Nebr.
Cooksey, James E.	4	Pendleton, Ore.	Pease, Horace O.	1	Philipsburg, Pa.
Cushman, Howard J.	4	Red Bluff, Calif.	Phillip, Melvin D.	3	Flint, Michigan
DeShazo, Dean O.	4	Las Vegas, Nev.	Reinhardt, John W.	2	Dyersburg, Tenn.
Elston, Robert J.	2	LaFayette, La.	Rogers, William A.	2	Atlanta, Ga.
Fischer, Raymond L.	1	Jamaica, N. Y.	Ruffin, Robert T.	4	Great Falls, Mont.
Gruber, Walter W. J.	2	Charleston, S.C.	Sanders, Robert L.	2	McComb, Miss.
Inaley, Charles W.	1	Washington, D.C.	Thompson, Robert L.	1	Charleston, W. Va.
Jennings, Jackie M.	3	Vichy, Missouri	Tipton, Walter H.	4	Drummond, Mont.
Jordan, Charles W.	2	Ft. Worth, Tex.	Waters, John M.	1	Martinsburg, W. Va.
Jurgens, Paul H.	4	Roswell, N. Mex.	Weber, Kenneth W.	1	Pittsburgh, Pa.
Leong, John S. C.	6	Honolulu, T.H.	Witherspoon, A. L.	4	Seattle, Wash.
Lothes, Eugene P.	1	Columbus, Ohio	Wright, Fred E.	2	Galveston, Texas

ILS/VOR CLASS 139 CONVENED JULY 28, TO OCTOBER 17, 1958

Andrews, Raymond H.	1	Erie, Pa.	Layman, Earl F.	1	Louisville, Ky.
Araujo, Wilson O.	OIC	Brazil	Leslie, Grady W.	2	Dallas, Texas
Bass, Arlie M.	2	Augusta, Ga.	Lewis, Norman A.	3	Cedar Rapids, Iowa
Bobone, Robert J.	4	Boise, Idaho	MacNamara, James	4	Pescadero, Calif.
Calabanda, Leon	2	New Orleans, La.	Morris, Griffith E.	2	Nashville, Tenn.
Chang, Herbert Q. C.	6	Wake Island	Mumper, William E.	3	Evansville, Indiana
Charland, Henry E.	1	Barnegat, N.J.	Newton, William K.	WO	Vancouver, Canada
Conley, William H.	2	Columbia, S. Car.	Pendharkar, S. B.	OIC	India
Dalton, Robert J.	4	Reno, Nevada	Peterson, Howard L.	3	Des Moines, Iowa
Dougherty, James J.	4	Los Angeles, Calif.	Pickford, Jack A.	4	Palmdale, Calif.
Edwards, James F.	2	Tyler, Texas	Pope, Wilson G.	2	Wilmington, N. Car.
Eichner, George T.	1	New York, N. Y.	Primo, Eleano B. P.	OIC	Brazil
Ennis, Russell E.	1	Windsor Locks, Conn.	Riley, Bobby K.	4	Portland, Oregon
Frame, Roland M.	5	Anchorage, Alaska	Sandore, Robert A.	1	Elmira, N. Y.
Gadre, Manohar N.	OIC	India	Scott, Boyd B.	2	Lubbock, Texas
Grillo, Philip R.	1	Jamaica, N. Y.	Stein, Richard A.	WO	Edmonton, Canada
Hoeler, Virgil I.	4	Ogden, Utah	Vondracek, Paul C.	3	Topeka, Kansas
Ingels, James R.	4	San Diego, Calif.	Wilson, Robert E.	5	King Salmon, Alaska
Kaufman, George G.	4	Denver, Colo.	Winters, Edward, Jr.	1	Pittsburgh, Pa.

A

TIMEX WATCH

was left in a classroom at the Center - around first of July 1958.

If it belongs to a student who was formerly at Center, write Doris Nichols, P.O. Box 1082 - Att: AC-1 Okla. City, Okla.

ILS/VOR CLASS 137 CONVENED JUNE 2, 1958, TO AUGUST 22, 1958

NAME	REG.	STATION	NAME	REG.	STATION
Allen, James H.	2	Tallahassee, Fla.	Ian, Norman Y. T.	6	Wake Island
Belonger, Frank A., Jr.	1	Oriskany, N. Y.	McKay, Carl R.	4	Salt Lake City, Utah
Brown, Douglas R.	4	Albuquerque, N. Mex.	Morehouse, Wm. M.	3	Lansing, Michigan
Bruemmer, John W.	2	San Antonio, Tex.	Morgan, Leroy N.	2	Dallas, Texas
Bunce, Dedrick M.	2	Chattanooga, Tenn.	Perry, Earl S.	2	Alexandria, La.
Caldwell, Cecil L.	3	Joplin, Mo.	Poiak, Richard A.	1	Newark, N. J.
Chrobak, Rudolph C.	1	Philipsburg, Pa.	Rhodes, Robert C.	4	Reno, Nevada
Davis, Henry L.	1	Cleveland, Ohio	Richey, William L.	4	Truth or Conseq., N.M.
Dunning, Donald A.	1	Philadelphia, Pa.	Rowell, Roy E.	2	Birmingham, Ala.
Engelhardt, Robert	Minna	St. Paul, Minn.	Slensby, Jack L.	1	Toledo, Ohio
Feller, Lee R.	3	Ypsilanti, Mich.	Stansbury, Richard J.	3	Whitita, Kansas
Gaudin, John W.	3	Waterloo, Iowa	Stone, Benjamin F.	1	Lexington, Ky.
Ghanem, Salim	OIC	Lebanon	Sturcke, Henry E., Jr.	1	Far Rockaway, N. Y.
Hajje, Joseph A.	OIC	Lebanon	Tollefson, Edwin N.	3	Pierre, S. D.
Hollis, Thomas L.	5	Anchorage, Alaska	Turner, Marshall B.	3	Cedar Rapids, Iowa
Ireland, John F.	1	New Bedford, Mass.	Walp, Vincent D.	1	Allentown, Pa.
Jennings, Homer S.	4	Toledo, Wash.	Williams, Stanley S.	4	Crescent City, Calif.

RADAR CLASS 125 CONVENED JUNE 9, 1958, TO AUGUST 29, 1958

Baker, Robert C.	4	Long Beach, Calif.	Magalis, Orville E.	4	San Francisco, Calif.
Brown, Marshall A., Jr.	1	Norfolk, Va.	Markley, John A.	4	Colorado Spgs., Colo.
Cagle, Harold	2	Nashville, Tenn.	Martindell, Jay P.	3	Indianapolis, Ind.
Chapman, Eton E.	1	Boaton, Mass.	Maston, Garland G.	1	Fairborn, Ohio
D'Agati, James F.	1	Cleveland, Ohio	Moon, Arthur M.	2	Montgomery, Ala.
D'Angelo, Andrew R.	1	Idelwild, N. Y.	Nelson, Robert L.	4	Salt Lake City, Utah
Duran, Blas-Antonio	OIC	Madrid, Spain	Powell, James V.	2	Honolulu, T. H.
Fryendahl, Bent	4	Albuquerque, N. M.	Prewitt, William D.	6	Okla. City, Okla.
Guedeney, Victor	OIC	Santiago, Chile	Rayner, John A.	4	Tucson, Arizona
Hamel, Albert M.	4	Denver, Colo.	Reyes, Alfred J.	2	New Orleans, La.
Harrison, V. E., Jr.	2	Austin, Texas	Rorke, John D.	4	San Diego, Calif.
Hellwig, Raymond B.	3	St. Louis, Mo.	Saltuney, Paz W.	4	Great Falls, Mont.
Hopkins, John W.	2	Shreveport, La.	Spade, Charles P.	3	Romulus, Michigan
Jones, Cleo	2	San Antonio, Tex.	Sullivan, Billy E.	3	Indianapolis, Ind.
Kanen, Garth M.	1	Anchorage, Alaska	Taylor, William B.	AC	Okla. City, Okla.
Kolodney, George J.	1	Philadelphia, Pa.	Tingle, John E., Jr.	2	Austin, Texas
Leathery, Lewis C.	2	New Orleans, La.	Vertner, Loren D.	4	Spokane, Wash.
Lee, Douglas W.	4	San Diego, Calif.	Weber, William C.	2	New Orleans, La.
McCaffrey, Francis X.	AC	Okla. City, Okla.	Yubero, Jose	OIC	Madrid, Spain
McIntosh, Eddie	2	Jacksonville, Fla.	Zaemes, Theodore	1	Washington, D. C.
McWhirter, Billie R.	4	Los Angeles, Calif.			

ILS/VOR CLASS 136 CONVENED MAY 5, TO JULY 25, 1958

NAME	REG.	STATION	NAME	REG.	STATION
Amundson, Geo. S.	6	Honolulu, Hawaii	Hoy, William L.	1	Charleston, W. Va.
Arakaki, Yutaka	6	Mau, Hawaii	Hyde, Richard H.	4	Omaha, Calif.
Battle, Robert H.	1	Bridgeport, Conn.	Kangas, Theodore	3	Houghton, Mich.
Cartwright, Ralph E.	1	Pittsburgh, Pa.	Kenner, Frank H.	2	Junction, Texas
Catrett, Jack L.	3	Romulus, Mich.	Kratovich, Joseph	3	Springfield, Ill.
Christiansen, Wm. M.	3	Omaha, Nebr.	Lacy, Harold L.	1	Louisville, Ky.
Cooper, Robert	1	Jamaica, N. Y.	Lackiar, Louis	2	Austin, Texas
Davis, Dicky D.	AC	Okla. City, Okla.	McEhane, Robert	2	Dothan, Ala.
Davis, Robert W.	4	Las Vegas, Nev.	Macy, Sam G.	1	Morgantown, W. Va.
Dickow, Charles R.	4	Los Angeles, Calif.	Maxvold, Donald L.	5	Anchorage, Alaska
Edwards, Desmond	5	Anchorage, Alaska	Pillans, B. P., Jr.	2	Ablene, Texas
Endres, George H.	1	Millville, N. J.	Prochaska, Wm. T.	3	St. Louis, Mo.
Easley, Bryan D., Jr.	2	Raleigh, N. C.	Rand, George K.	2	Memphis, Tenn.
Ettinger, Karl M.	1	Martinsburg, W. Va.	Randall, Daniel G.	1	Portland, Maine
Frost, Hubert P.	2	Columbus, Ga.	Shaklee, Donald C.	3	Evansville, Ind.
Good, Paul F.	1	Mansfield, Ohio	Takemaka, Hideo	4	Lovelock, Nev.
Gordon, Calvin L.	4	Prescott, Ariz.	Thomas, William C.	2	Fl. Myers, Fla.
Gorak, Peter F.	1	Idelwild, N. Y.	Thompson, Leo H.	1	New York, N. Y.
Hanft, Clyde P.	3	Kansas City, Mo.	Wasmund, Harry	4	Eugene, Oregon
Harris, Joseph L.	4	Ogden, Utah	Woody, James E.	2	Knoxville, Tenn.

RADAR OPTION SPECIALTY CLASS 123 CONVENED MAY 12, TO JUNE 6, 1958

Anderson, Charles H.	2	Huntsville, Ala.	Lakey, Glen W.	2	Dallas, Texas
Arp, Harry E.	3	Romulus, Mich.	Light, Dennis J.	4	Denver, Colo.
Barrett, Claude C.	4	Portland, Ore.	Lowe, Stanley G.	1	Washington, D. C.
Cook, Wallace B.	4	Denver, Colo.	Mijares, Lawrence	3	Kansas City, Mo.
Cottles, William H.	2	Memphis, Tenn.	Montello, Biagio B.	3	Omaha, Nebr.
Cowles, Ralph L.	5	Anchorage, Alaska	Rich, Clarence T.	2	Waco, Texas
DeSouza, Saulo F.	OIC	Brazil	Richards, Robert R.	3	Romulus, Mich.
Evans, Johnnie I.	2	Shreveport, La.	Roberts, Evan A.	2	Savannah, Ga.
Garrett, Basil G.	2	Austin, Texas	Standard, Donald	1	Buffalo, New York
Goldstein, Irving	1	New York, N. Y.	Telles, Estanislao	OIC	Chile
Gomes, Sergio D. S.	OIC	Brazil	Travis, Bill T.	2	Montgomery, Ala.
Highower, Giles W.	AC	Okla. City, Okla.	Van Buakirk, R. E.	5	Fairbanks, Alaska
Piergon, Robert A.	4	Grand Junction, Colo.	Walters, Joe E.	2	Mobile, Ala.
Mayhall, Joseph	1	Cleveland, Ohio	White, Matthew G.	2	El Paso, Texas
Mehner, Robert D.	4	McChord AFB, Wash.			

PRE-RADAR CLASS 125 CONVENED MAY 12, TO JUNE 6, 1958

Baker, Robert C.	4	Long Beach, Calif.	Martindell, Jay P.	3	Indianapolis, Ind.
Brown, Marshall A., Jr.	1	Norfolk, Va.	Moon, Arthur M.	2	Montgomery, Ala.
Hamel, Albert M.	4	Denver, Colo.	Prewitt, William D.	2	Okla. City, Okla.
Hellwig, Ray B.	3	St. Louis, Mo.	Rorke, John D.	2	Miramar, Colo.
Hopkins, John W.	2	Shreveport, La.	Spade, Charles P.	3	Romulus, Mich.
Jones, Cleo	2	San Antonio, Tex.	Weber, William C.	2	Okla. City, Okla.
McCaffrey, Francis	AC	Okla. City, Okla.	Zednichek, Robert	1	Jamaica, N. Y.
McWhirter, Billy R.	4	Los Angeles, Calif.			

ILS/VOR CLASS 138 CONVENED JUNE 30, TO SEPTEMBER 19, 1958

NAME	REG.	STATION	NAME	REG.	STATION
Adams, Edward H.	1	Washington, D. C.	LaRiviere, Wilfred	3	Duluth, Minn.
Ariful, Mans	OIC	Thailand	Levick, Grady W.	2	Dallas, Texas
Austin, John T.	5	Anchorage, Alaska	Lucas, Edwin E.	4	Butte, Montana
Bender, L. E., Jr.	AC	Okla. City, Okla.	Mayo, David G., Jr.	2	Tulsa, Okla.
Bennett, Glen D.	AC	Okla. City, Okla.	Miller, Howard R., Jr.	1	Cleveland, Ohio
Berry, Francis R.	AC	Okla. City, Okla.	Mitchell, John R.	2	Miami, Florida
Bethel, Floyd R.	3	Joplin, Mo.	Nick, Paul E.	4	Miles City, Mont.
Carpenter, Francis	1	Covington, Ky.	Pemberton, G. D., Jr.	2	Los Angeles, Calif.
Chaudhry, G. Khaliq	4	Ottawa, Canada	Perry, Bobby J.	AC	Okla. City, Okla.
Christiansen, Ethan	4	Albuquerque, N. Mex.	Perry, Earl S.	2	Alexandria, La.
Cochio, Joseph D.	1	Albany, N. Y.	Prada, Marion	1	Pittsburgh, Pa.
Craddock, Leo E.	1	Wheeling, Ohio	Sandore, Robert A.	1	Horseshoe, N. Y.
Cunningham, Theodore	1	Jamaica, N. Y.	Satorius, Ray R.	2	Greenboro, N. C.
Donovan, John F.	AC	Okla. City, Okla.	Shulinger, Paul	1	LaGuardia, N. Y.
Ewing, Donald M.	AC	Okla. City, Okla.	Smith, C. Gordon	3	Goodland, Kansas
Fulstone, Lawrence	2	Jacksonville, Fla.	Weber, Robert R.	1	New York, N. Y.
Gorby, Earl W.	4	San Francisco, Calif.	Weeks, Irvin B.	3	Dickinson, N. Dak.
Haynes, Robert B.	2	Graham, Tenn.	Wildenberger, John	1	Binghamton, N. Y.
Inceoglu, Kadir	OIC	Turkey	Williams, Richard T.	1	Idelwild, N. Y.
Jones, Bruce J.	1	Jamaica, N. Y.	Winters, Charles L.	AC	Okla. City, Okla.
Kinney, James D.	AC	Okla. City, Okla.	Woods, Vernal T.	4	Salt Lake City, Utah
Ladeau, William D.	4	Roswell, N. Mex.	Yetter, Forrest G.	WO	Washington, D. C.

RADAR OPTION SPECIALTY CLASS 124 CONVENED JUNE 23, TO JULY 18, 1958

Agardy, Julius L.	1	Cleveland, Ohio	McClain, William T.	2	Tampa, Florida
Avett, Lester L.	4	Great Falls, Mont.	McDevitt, William H.	1	Washington, D. C.
Black, William D.	4	Denver, Colorado	Moody, Arch B.	2	Okla. City, Okla.
Brown, Billy E.	2	Memphis, Tenn.	Morris, Stephen L.	1	Norfolk, Va.
Bryant, James G.	2	Shreveport, La.	Netter, John E.	4	Denver, Colorado
Burger, Tommy W.	2	Ft. Worth, Texas	Norman, Paul E.	2	Miami, Florida
Burns, Robert B.	2	Jacksonville, Fla.	Purnell, Thomas E.	3	Minneapolis, Minn.
Christie, Dumas E.	2	Savannah, Ga.	Sennett, William F.	1	Philadelphia, Pa.
DeMott, Robert	1	Washington, D. C.	Smith, William T.	1	Dayton, Ohio
Eaves, James M.	2	Mobile, Ala.	Sowers, Robert M.	3	Kansas City, Mo.
Farrell, S. J., Jr.	1	Boston, Mass.	Walker, Kenneth C.	1	Burlington, Vt.
Glover, Lester M.	3	Kansas City, Mo.	Wanska, Roy A.	4	Bellevue, Wash.
Gliff, Wayne H.	2	Shreveport, La.	Waters, Robert E.	AC	Okla. City, Okla.
Haltauderhyde, G. L.	1	LaGuardia Ap., N. Y.	Weaver, Monty L.	4	Riverdale, Calif.
King, Merle V.	WO	Washington, D. C.	Wilmering, J. F., Jr.	3	St. Louis, Mo.
Lake, Donald E.	3	Detroit, Mich.	Zajic, John R.	3	Kansas City, Mo.
Loughman, J. F., Jr.	1	Pittsburgh, Pa.			

ELECTRO-MECHANICS TELETYPE CLASS 1 CONVENED JUNE 23, TO JULY 18, 1958

Collins, Clarence E.	1	Fairborn, Ohio	Robinson, Roy B.	2	Ft. Smith, Ark.
Covey, Stuart M.	1	Windsor Locks, Conn.	Smith, Artie M.	3	LaCrosse, Wis.
Davenport, Wm. A.	2	Charlotte, N. C.	Taylor, John H.	3	Grand Island, Neb.
Forbes, Robert A.	2	LaFayette, La.	Watanabe, Fred K.	6	Hilo, Hawaii
Makowski, Roger J.	1	Providence, R. I.			

SHORT TACAN CLASS 3 CONVENED JULY 28, TO AUGUST 22, 1958

NAME	REG.	STATION	NAME	REG.	STATION
Akins, Willard G.	4	Olympia, Wash.	Lincoln, Albert	4	Needles, Calif.
Allen, Philip R.	3	Battle Creek, Mich.	McBride Fred M., Jr.	3	Sioux Falls, S. D.
Bartushe, Jack E.	4	Sheridan, Wyo.	Malone, George L.	4	Seattle, Wash.
Barson, Edward, Jr.	2	Austin, Texas	Muller, Constant S.	2	Charlotte, N. C.
Calhoun, Ernest W.	4	Daygett, Calif.	Norman, Robert E.	2	Jacksonville, Fl.
Clayton, Leslie L.	3	Butler, Mo.	Olson, William E.	6	Kaneohe, Hawaii
Cobb, Harold L.	4	Marysville, Calif.	Pipes, Carlyle P.	3	St. Joseph, Mo.
Gauthier, John L.	3	Peoria, Ill.	Roadsilly, Robert H.	2	San Antonio, Tex.
Garrison, Robert E.	2	Meridian, Miss.	Sauer, Orville W.	3	Terre Haute, Ind.
Hodgecock, Ray G.	1	Louisville, Ky.	Swainson, Norman T.	4	Eugene, Ore.
Hoggins, A. J.	4	Albuquerque, N. M.	Swanseen, Robert W.	1	Syracuse, N. Y.
Hyatt, Clifford B.	1	Baltimore, Md.	Teatsorth, Jack J.	4	Los Angeles, Ca.
Jenkins, Raymond E.	1	New York, N. Y.	Williams, Jesse A.	2	Ft. Worth, Tex.
Kelly, Dale E.	2	Okla. City, Okla.	Wink, William R.	1	Williamsport, Pa.

ELECTRO-MECHANICS CLASS 2 CONVENED JULY 21, TO SEPTEMBER 12, 1958

Barr, Aphanas J.	WO	Washington, D. C.	Hoggins, Donald W.	1	Nantucket, Mass.
Burkett, Thomas A.	1	Dayton, Ohio	Holzman, Benjamin	5	Anchorage, Alaska
Chang, Joe C.	6	Canton Island	Tptarko, Andrew F.	2	Lubbock, Texas
Davis, Ralph L.	2	Tulsa, Okla.	Waldrip, Edward E.	4	Los Angeles, Ca.
Hall, Sterling G.	4	Los Angeles, Calif.	Welch, John R.	3	Vichy, Mo.
Heay, James R.	5	Cape Yakataga, Alaska			

APRIL GRADUATES IN DIRECTED STUDY COURSES IN 200 SERIES

NAME	REG.	STATION	NAME	REG.	STATION
DS-208					
Bethra, Albert J.	3	Huron, S. Dak.	Kawagoe, Roy	6	Wahiawa, Oahu, T.
Carson, Robert G.	3	Butler, Mo.	Locke, W. A.	3	Kansas City, Mo.
Dove, B. M.	1	Lynchburg, Va.	McKay, Carl R.	4	Kearns, Utah
Fitzgerald, Edward	4	Bakersfield, Calif.	Sydebotham, W. I.	4	LaJuna, Colorado
Baum, George Y.	6	Honolulu, T. H.	Wilcox, Donald E.	5	Mt. Edgecumbe, A.

APRIL GRADUATES IN DIRECTED STUDY COURSES IN 300 SERIES

DS-301					
Bannister, Robert C.	3	Cedar Falls, Iowa	MacLennan, A. G.	OIC	Ottawa, Canada
Ing, John C. Y.	6	Honolulu, T. H.	Myers, Sam J.	6	Alea, Oahu, T. I.
Ladeau, William D.	4	Roswell, N. Mex.	Thompson, Lacy L.	4	Bakersfield, Calif.
DS-302					
Bannister, Robert C.	3	Cedar Falls, Iowa	Pineda, Emilio	OIC	Madrid, Spain
Ing, John C. Y.	6	Honolulu, T. H.	Powell, James V.	6	Waimanalo, T. H.
Johnson, Floyd L.	4	Albuquerque, N. Mex.	Whitlock, E. V.	4	Medford, Oregon
King, James F.	2	Johnston City, Tenn.			
DS-303					
McKinney, Milton E.	4	Los Angeles, Calif.	Smith, Paul H.	2	Ft. Smith, Ark.
Rasmussen, O. J.	4	Eugene, Oregon	Warren, Howard B.	1	Woodside, N. Y.

MAY GRADUATES IN DIRECTED STUDY COURSES IN 200 SERIES

DS-201					
Jones, Robert E.	3	Des Moines, Iowa	Osborn, Robert E.	3	Sidney, Nebr.
Lynch, Richard T.	4	Long Beach, Calif.	Perry, Raymond W.	4	Drummond, Mont.
Morris, Griffith R.	2	Nashville, Tenn.	Scott, Delmar R.	2	Greensboro, N. Car.
Mosser, Joseph F.	4	Blythe, Calif.	Yee, Kim Kee	6	Agana, Guam, M.I.
DS-202					
Davis, Charles E.	2	El Paso, Texas	Welch, Wadel A.	2	El Paso, Texas
Van Zweden, Eugene	4	Ogden, Utah	Wright, Maurice E.	5	Anchorage, Alaska
Wasmundt, Harry F.	4	Eugene, Oregon			
DS-203					
Cline, George V.	5	Nome, Alaska	Morgan, Alfred C.	4	Butte, Montana
Dunning, Donald A.	1	Philadelphia, Pa.	Olson, Clyde C.	4	Seattle, Wash.
Forester, J. E.	2	Oxford, Alabama	Peterson, Ramon	3	Battle Creek, Mich.
Gonzales, Eugene G.	4	Albuquerque, N. Mex.	Schmitt, Louis O.	4	Albuquerque, N. Mex.
Holberg, Robert M.	3	Lansing, Michigan	Sydebotham, W. I.	4	La Junta, Colorado
Ketterling, Elmer R.	4	Yakima, Wash.	Williams, S. S.	4	Crescent City, Calif.
Maddox, James G.	4	Thermal, Calif.	Wright, Robert E., Jr.	3	Lansing, Mich.
Mikecell, R. E., Jr.	1	Olmsted Falls, Ohio			
DS-204					
Beyersdorf, Dan	3	Madison, Wisconsin	Vance, Abe C.	4	Salt Lake City, Utah
Kass, Adolf P.	3	Moline, Ill.	Zubillaga, Alfred	6	Honolulu, T. H.
Spataro, John E.	2	Montgomery, Ala.			
DS-208					
Grebe, Edgar G.	3	Bradford, Ill.	Vance, Abe C.	4	Salt Lake City, Utah
Jones, Robert E.	3	Des Moines, Iowa			

MAY GRADUATES IN DIRECTED STUDY COURSES IN 300 SERIES

DS-301					
Cambren, Robert L.	4	Tucson, Arizona	Walker, M. Eugene	4	Fremont, Calif.
Lucciani, Vincent J.	AC	Oklahoma City, Okla.	Whitworth, George	2	Waco, Texas
DS-302					
Morehouse, William	1	Binghamton, N. Y.	Nelson, Robert L.	4	Midvale, Utah
DS-303					
Ing, John C. Y.	6	Honolulu, T. H.	Powell, James V.	6	Waimanalo, T. H.
King, James F.	2	Johnson City, Tenn.	Williams, Herman	2	Birmingham, Ala.
DS-304					
Ing, John C. Y.	6	Honolulu, Hawaii			
NAME	REG.	STATION	NAME	REG.	STATION
Bauer, William D.	4	Vancouver, Wash.	Nick, Paul E.	4	Miles City, Mont.
Bigelow, Vernon G., Jr.	5	Glenallen, Alaska	Rogers, Wm. E., Jr.	5	Spenard, Alaska
Dunning, Donald A.	1	Philadelphia, Pa.	Rohrer, Paul W.	5	Spenard, Alaska
Edwards, William R.	2	Wichita Falls, Tex.	Riley, Bobby K.	4	Denver, Colorado
Hamer, Edwin C.	4	Pendleton, Oregon	Solonsky, Adolf F.	1	Exeter, Pa.
Holt, William	1	Nantucket, Mass.	Stanbury, Richard	3	Wichita, Kansas
Kielhorn, Elwood D.	3	Pierre, S. Dak.	Tharp, John H.	4	Billing, Mont.
Kruuse, E. H.	3	Rochester, Minn.	Winston, J. W.	AC	Oklahoma City, Okla.
Lackey, Thomas	AC	Oklahoma City, Okla.	Wood, Roger O.	4	Los Angeles, Calif.
McCool, Frank H.	1	W. Boylston, Mass.	Zeine, Richard A.	4	Gooding, Idaho
Neville, Thomas Jr.	5	McGrath, Alaska			

MAY GRADUATES IN DIRECTED STUDY COURSE 100

NAME	REG.	STATION	NAME	REG.	STATION
Baker, Ben	3	Rapid City, S. Dak.	MacNamara, James	4	Santa Cruz, Calif.
Baumes, George J.	1	Fairborn, Ohio	McKeen, J. E.	1	Xenia, Ohio
Fettig, David A.	3	Ypsilanti, Mich.	Mickey, Wesley Q.	5	Fairbanks, Alaska
Gerred, Myron P.	3	Sault Ste. Marie, Mich.	Morgan, Alfred C.	4	Butte, Mont.
Gonzalez, Jorge L.	2	San Juan, P. R.	Perry, Harrie L.	3	Kansas City, Mo.
Larsen, Udell M.	4	Millbrae, Calif.	Seibel, Donald G.	3	Russell, Kansas
Lee, Douglas W.	4	San Diego, Calif.	Wood, Vernal T.	4	Kearns, Utah

JUNE GRADUATES IN DIRECTED STUDY COURSES IN 300 SERIES

DS-301					
Beyersdorf, Dan	3	Madison, Wis.	Landers, Tom J., Jr.	2	Lubbock, Texas
Davis, Alfred L.	2	Charleston Hgta, S.C.	Shepherd, Robert D.	4	Tucson, Ariz.
Farrar, Lavin F.	4	Denver, Colo.	Volkomenar, Edwin J.	4	Great Falls, Mont.
DS-302					
Beyersdorf, Dan	3	Madison, Wis.	Pojs, Albert	3	Kansas City, Kan.
Farrar, Lavin F.	4	Denver, Colo.	Volkomenar, Edwin	4	Great Falls, Mont.
Myers, Sam J.	6	Alsea, Oahu, T. H.			
DS-303					
Whitlock, E. V.	4	Medford, Oregon			
DS-304					
Mosser, Joseph F.	4	Blythe, Calif.			

JUNE GRADUATES IN DIRECTED STUDY COURSES IN 200 SERIES

NAME	REG.	STATION	NAME	REG.	STATION
Allison, James E.	4	March AFB, Calif.	Hajje, Joseph A.	OIC	Lebanon
Appelbury, James L.	4	Lovelock, Nevada	Maki, Herbert	4	Evansville, Ind.
Daugherty, Wm. M.	AC	Oklahoma City, Okla.	McElhaney, R. F.	2	Dothan, Ala.
Davis, Charles E.	2	El Paso, Texas	Mosser, J. F.	4	Blythe, Calif.
Gambo, Martin J.	5	Nome, Alaska	Nelson, Frederick	4	Akron, Colo.
Gerred, Myron P.	3	Sault Ste. Marie, Mich.	Van Zweden, Eugene	4	Ogden, Utah
DS-204					
Karn, Bertram W.	6	Honolulu, T. H.	Mone, Edward	4	Mill Valley, Calif.
Ladeau, William D.	4	Roswell, N. Mex.	Wilcox, Donald E.	5	Mt. Edgecumbe, Alaska
DS-208					
Borckardt, B. B.	3	Madison, Wis.	Pardew, George W.	6	Kahaehe, T. H.
Kass, Adolf P.	3	Moline, Ill.	Powell, James V.	6	Waimanalo, Hawaii
Moeller, C. S.	2	Charlotte, N. C.	Schmidt, Paul A.	4	Goleta, Calif.

JULY GRADUATES IN DIRECTED STUDY COURSES IN 200 SERIES

NAME	REG.	STATION	NAME	REG.	STATION
DS-202					
Charland, Henry E.	1	Toms River, N. J.	Olson, Clyde O.	4	Seattle, Wash.
Dunning, Donald A.	1	Philadelphia, Pa.	Slensby, Jack L.	1	Swanton, Ohio
Grillo, Philip R.	1	Rosedale, N. Y.	Williams, Herbert Q.	6	Kailua, Oahu, T. H.
DS-203					
DeMoss, Jack F.	Spec.	Indianapolis, Ind.	Peterson, Howard L.	3	Des Moines, Iowa
Fairbanks, Harold M.	3	South Bend, Ind.	Pickavet, George	4	Sacramento, Calif.
Orton, Glenn G.	4	Moriarty, N. Mex.	Rector, D. C.	3	Indianapolis, Ind.
DS-204					
Oxford, Ralph W.	3	Hutchinson, Kansas			

JULY GRADUATES IN DIRECTED STUDY COURSES IN 300 SERIES

DS-301					
Johnson, Charles T.	4	Sharp Park, Calif.	Ratliff, Paul C.	4	Colorado Spgs., Colo.
McCullough, Carl A.	2	Dyersburg, Tenn.	Yoneshige, Ralph R.	6	Wake Island
Piper, George D.	3	St. Charles, Mo.			
DS-302					
Johnson, Charles T.	4	Sharp Park, Calif.	Stasiak, Stanley A.	3	Chicago, Ill.
Schats, Raymond P.	4	Los Angeles, Calif.	Thompson, Lucy I.	4	Bakersfield, Calif.
Shepherd, Robert D.	4	Chicago, Ill.			
DS-303					
Beyersdorf, Dan	3	Madison, Wis.	Farrar, Lavin F.	4	Denver, Colorado
DS-304					
Johnson, E. G.	4	Winnemucca, Nev.			

AUGUST GRADUATES IN DIRECTED STUDY COURSES IN 300 SERIES

NAME	REG.	STATION	NAME	REG.	STATION
DS-301					
Chow, William H. P.	6	Honolulu, T. H.	Keeler, Dale L.	2	Tampa, Fla.
Chung, Moon S.	6	Agana, Guam, M.I.	Ranspot, J. W.	2	Memphis, Tenn.
Cline, George V.	5	King Salmon, Alaska	Raymond, Garold E.	4	Yuma, Arizona
Glotzbach, Walter L.	3	Burlington, Iowa			
DS-302					
Johnson, Charles T.	4	Sharp Park, Calif.	Thompson, L. I.	4	Bakersfield, Calif.
Myers, Sam J.	6	Alsea, Oahu, T. H.			
DS-304					
Farrar, Lavin	4	La Junta, Colo.	Kruuse, E. H.	3	Rochester, Minn.

AUGUST GRADUATES IN DIRECTED STUDY COURSE 1

NAME	REG.	STATION	NAME	REG.	STATION
Jackson, Max Herb	AC	Oklahoma City, Okla.	Powell, W. P.	4	Needles, Calif.
Paquette, Leo J.	Spec.	Malden, Mo.	Roseborough, R. W.	4	Medford, Ore.

AUGUST GRADUATES IN DIRECTED STUDY COURSE 90

NAME	REG.	STATION	NAME	REG.	STATION
Alalock, Henry D., Jr.	2	Jacksonville, Fla.	Marshall, Jack R.	4	Hobbs, N. Mex.
Bourne, Robert H.	2	Tampa, Fla.	Maynard, Charles E.	1	Columbus, Ohio
Cole, Marcus B.	Spec.	Montros, La.	Minter, George W.	4	Farmington, N. Mex.
Gavio, Anthony P.	2	Birmingham, Ala.	Nichols, Charles L.	AC	Oklahoma City, Okla.
Geary, William A.	4	Battle Mt., Nev.	Parsons, W. B.	2	Tulsa, Okla.
Gilmer, Robert W.	2	El Paso, Texas	Pemberton, Jack	AC	Oklahoma City, Okla.
Grebo, George	Spec.	Beitpago, N. Y.	Skolnick, Bertram	Spec.	Warrenton, Va.
Hammond, Oscar C.	3	Inksler, Mich.	Trainor, Gerald F.	1	Elmhurst, N. Y.
Harris, M. H.	3	Wichita, Kansas	Tukhi, Abdul S.	OIC	Afghanistan
Jackson, Harold F.	Spec.	Douglas, Ariz.	Voss, Roger E.	3	Chadron, Nebr.
Jakobi, Edmund J.	4	Los Angeles, Calif.	Webb, James R.	3	Chattanooga, Tenn.
Johnson, Earl J.	4	Oakland, Calif.	Weiske, Herbert L.	3	Cedar Rapids, Iowa
Kidwell, T. C.	2	Myrtle Beach, S. Car.	Westfall, Charles C.	AC	Oklahoma City, Okla.
Lake, Fred E.	2	Waco, Texas			



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